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622.33 Huntingdon Chen-
L3hcmp Northern (Firm)
1993 Havre Coal
 Maintenance
 Project, DSL-AMRB
no. 92-007

FINAL REPORT
HAVRE COAL MAINTENANCE PROJECT
DSL/AMRB 92-007

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FINAL REPORT

HAVRE COAL MAINTENANCE PROJECT

DSL/AMRB 92-007



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FINAL REPORT

HAVRE COAL MAINTENANCE PROJECT

DSL/AMRB 92-007

Prepared for:

Department of State Lands
Abandoned Mine Bureau

Prepared by:

Huntingdon Chen-Northern
P.O. Box 4699
1610 B Street
Helena, Montana 59604

December 1993

December 30, 1993

Mr. Joel Chavez
Department of State Lands
Reclamation Division
Abandoned Mine Reclamation Bureau
P.O. Box 201601
Helena, Montana 59620-1601

RE: Havre Coal Maintenance Project Final Report

Dear Joel:

This letter report summarizes construction activities completed during the Havre Coal Maintenance Project near Havre, Montana. Construction activities summarized herein were completed between September 27, 1993 and October 1, 1993 in accordance with the construction bid package issued by the AMRB on June 30, 1993. This final report constitutes the final deliverable required by Task Order No. 11.

Site Description and Locations

The sites included in the Havre Coal Maintenance Project are located on private and state land used for cattle grazing and wildlife range in the vicinity of Havre and Chinook, Montana. All mine openings included in this project are subsidences which occurred over previously reclaimed coal adits, shafts, or mine workings. These sites were originally reclaimed by the AMRB during 1985 and 1988 and the work completed during this project is considered as maintenance.

Subsidences backfilled during the project were located at four abandoned coal mining sites: Havre SCS 31; Larson-Hubbs; Roberts-Vandeven; and, Willman Mine. Two of





the sites, Havre SCS 31 and Larson-Hubbs, are located in Hill County north of Havre, Montana. The other two sites, Vandeven and Willman Mine, are located in Blaine County north and southeast of Chinook, Montana, respectively. Work at each site consisted of backfilling the following: 11 subsidences at the Havre SCS 31 site; three subsidences at the Larson-Hubbs site; five subsidences at the Vandeven site; and, 16 subsidences at the Willman site.

Work at the Havre SCS 31 site was originally completed in October 1985 and consisted of closing one adit, backfilling subsidence areas with 1,800 cubic yards of backfill, and disposing of coal waste on-site. L.C. Hanson Company was the project engineer. Reconnaissance performed by AMRB and Chen-Northern personnel in March 1993 located approximately 60 subsidence and piping features on formerly reclaimed areas and in new areas on the project site. Only 11 sites were considered substantial enough to require maintenance work.

Reclamation activities performed at the Larson-Hubbs site were originally completed by the AMRB in October 1985. L.C. Hanson Company was the project engineer. Work at this site included closing one adit, backfilling subsidence areas, and disposing of 4,664 cubic yards of coal waste on-site.

Reclamation activities performed at the Vandeven site were originally completed in October 1988. Delta Engineering was the project engineer. Work at this site included backfilling subsidence areas and disposing of 2,700 cubic yards of coal waste on-site.

Reclamation activities performed at the Willman site were originally completed in April 1985. L.C. Hanson Company was the project engineer. Work at this site included backfilling subsidence, drilling boreholes to locate underground workings, injecting water and backfill into underground workings, closing adits and shafts, and disposing of coal waste on-site.

Legal descriptions of all sites included in the project are listed in Table 1. Their locations are shown on the site maps contained in Attachment A.

TABLE 1
SITE LOCATIONS
HAVRE COAL MAINTENANCE PROJECT

PA NO. ¹	COUNTY	MINING DISTRICT	SITE NAME	LEGAL DESCRIPTION
C-2108	Hill	Milk River Coal Field	Havre SCS-31	T33N R16E S30 SW & S31 NW
C-2101	Hill	Milk River Coal Field	Larson - Hubbs	T33N R15E S24 SW & S25 NW
C-0303	Blaine	Milk River Coal Field	Vandeven	T34N R19E S25
C-0304	Blaine	Milk River Coal Field	Willman	T32N R20E S27 NE SW

1 The Pa. No. denotes the AMRB Problem Area Number

Description of Reclamation Contract

Bid documents were prepared and advertised for bid during July 1993. A pre-bid conference was held on Wednesday, July 28, 1993 at the Montana Department of State Lands in Helena. A slide show was presented to acquaint prospective bidders with site conditions since it was not practical for most contractors to visit each site. The slide presentation included a narrative describing site access and construction considerations for specified reclamation.

Montana Department of State Lands personnel publicly opened bids for the project on August 6, 1993. The three lowest bids are presented below. Complete bid tabulation results are presented in Attachment B.

- TP Construction, Inc. \$ 15,996.00
- Shumaker Trucking & Excavating \$ 19,750.00
- Pine Street, Inc. \$ 24,985.00

Project Construction

Closure by backfill was the only method of reclamation performed on the subsidences included in this project. Borrow material was obtained from the Contractor's licensed gravel pit located near Chinook, Montana to supplement native fill material. Coversoil material was obtained from the same source and used to create a suitable seedbed for



revegetation of backfilled subsidences. Subsidence areas were over-excavated with a backhoe, filled with native and borrow material, and the material compacted with the backhoe. A minimum six-inch lift of coversoil was placed over the filled subsidence for final grading. Each subsidence was fertilized, seeded, and mulched according to the bid specifications.

TP Construction completed the project utilizing a crew of two full-time workers during the construction phase of the project. Curtis Wood was the field supervisor/operator and Arthur Bickford was also an operator. The following list of equipment was used by the contractor:

- CAT 930 Track Loader
- 1986 CASE 580 CK Backhoe
- Eight Yard Dump Trucks (2)

Construction activities commenced on September 27, 1993 and continued until the project was completed on October 1, 1993. The contractor performed all construction activities according to contract specifications and within the contract period. The following chronology presents the sequence of events that led to completion of the project.

• Notice of Award:	August 6, 1993
• Notice to Proceed:	September 14, 1993
• Construction Start-up:	September 27, 1993
• Certificate of Completion:	October 8, 1993
• Final Acceptance:	November 5, 1993

The following people contributed to the coordination, design, execution, and inspection of the Project:

• Project Coordination & Design:	Huntingdon Chen-Northern Inc.
• Engineering Plan Preparation:	Huntingdon Chen-Northern Inc.
• Contractor:	TP Construction Inc., Havre, MT



- Quality Control Inspection: Huntingdon, Chen-Northern Inc.
Jess Whitford, Project Inspector
Jeremiah B. Bowser, P.E., Project Eng.
- AMRB Project Manager: Joel Chavez

Project Reconciliation

One change order was issued for this project during the course of construction for a net change in contract price of (+) \$ 1,465.65 or 8.3% of the original contract total. The three changes included in the change order involved the addition borrow and coversoil material. The contract time period was not affected by the change orders.

The total contract cost for the Havre Coal Maintenance Project was \$17,452.65. The original bid price was \$15,996.00 compared to the engineers' estimate of \$18,094.00. A total of 867 cubic yards of backfill and 78 cubic yards of coversoil were used on this project. Attachment C contains copies of the change order, pay request, the Certificate of Completion and Acceptance, and the Affidavit on Behalf of Contractor.

Project Summary

Table 2 presents a cost analysis of project costs. Along with construction costs, this summary includes engineering costs such as closure design, bid package preparation, construction inspection, and construction administration. The total cost to complete the Havre Coal Maintenance Project is \$ 34,682.65. The average construction closure cost per subsidence is \$ 498.65. The average total closure cost per subsidence is \$ 990.93.

Because of the limited number of subsidences (35) reclaimed during the construction project, Joel Chavez, the AMRB Project Manager, elected not to complete a final inspection. Joel Chavez was on-site during a portion of the closures and Jess Whitford, Chen-Northern's project inspector, was on-site at all times during construction. The closures completed during the project were constructed in general accordance with specifications contained in the Standard Construction Specifications for Abandoned Mine Reclamation and the bid document for the project.

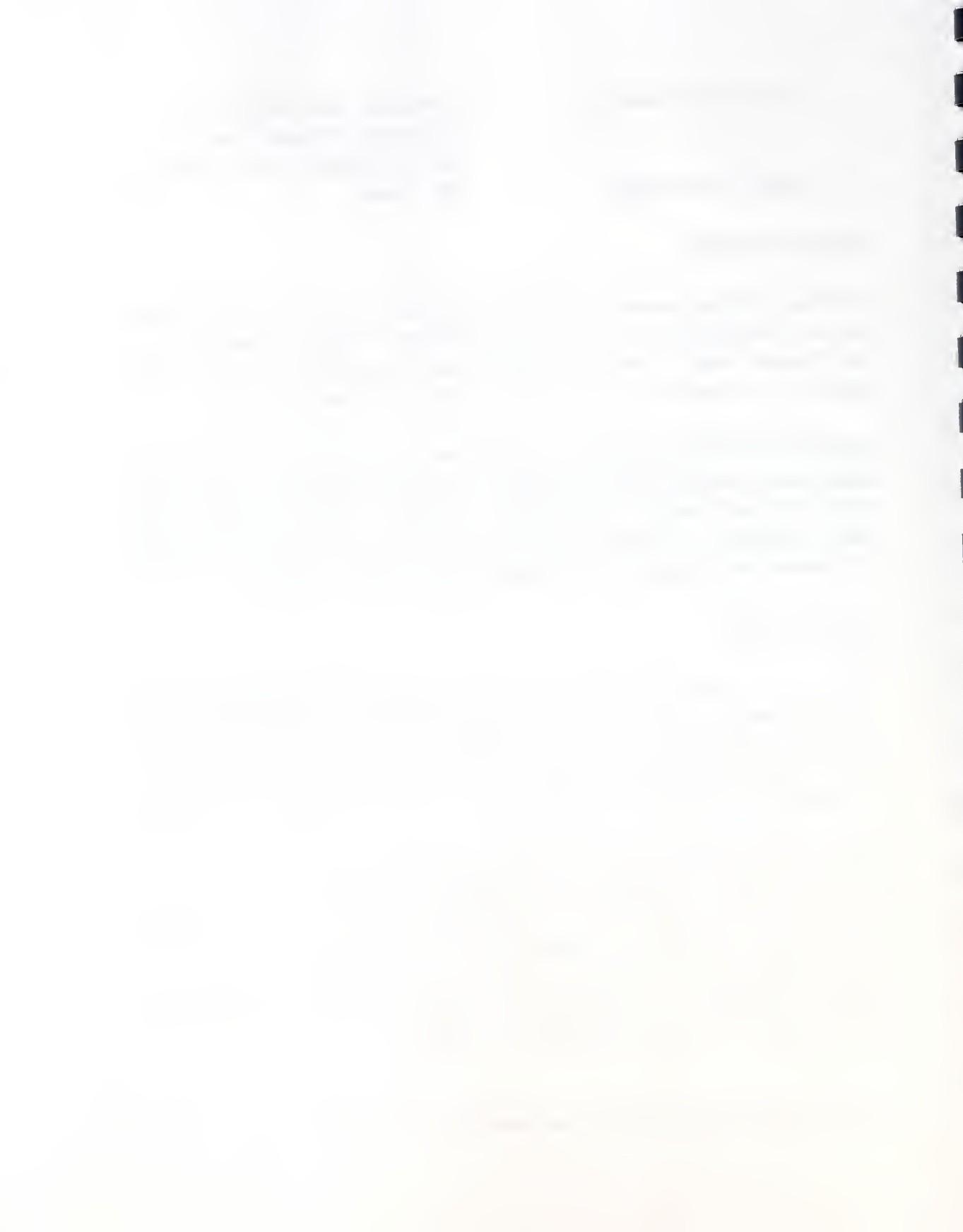


TABLE 2
COST ANALYSIS
HAVRE COAL MAINTENANCE PROJECT

ENGINEERING	
Closure Design, Bid Package Preparation, and Bid Administration	\$ 10,097.00
Construction Inspection, Administration, and Final Report Preparation	\$ 7,133.00
TOTAL ENGINEERING FEE	\$ 17,230.00
TOTAL CONSTRUCTION COST	\$ 17,452.65
TOTAL PROJECT COST	\$ 34,682.65
Total Engineering Fee/Total Project Cost	49.7%
Total Construction Cost/Total Project Cost	50.3%
Construction Inspection Cost/Total Construction Cost	40.9%
Engineering Design and Bid Package Preparation/Total Construction Cost	57.9%
Total Number of Subsidence	35
AVERAGE CONSTRUCTION CLOSURE COST PER SUBSIDENCE	\$ 498.65
AVERAGE TOTAL CLOSURE COST PER SUBSIDENCE	\$ 990.93

To minimize any liability to the State, all backfilled mine openings should be inspected on an annual basis for several years following completion of the project. Revegetation success should also be monitored for several years. Vegetation inspections should identify seeding failures on reclaimed sites and document species which are better suited to revegetate reclaimed sites. The presence or absence of weeds should also be documented to satisfy weed control obligations.

Project Documentation

Attachment D contains a complete reconciliation for work completed at each subsidence site. Print and slide photographs taken before, during, and after construction activities completed at each subsidence are contained in Attachment E. The photographs are indexed by Pa. No. and a description of the photo can be found in the log presented at the beginning of Attachment E.



If you have any questions concerning this report, please call. We appreciate the opportunity to provide the AMRB with engineering services.

Sincerely,



for Brent Baumann
Geologist

Reviewed by,



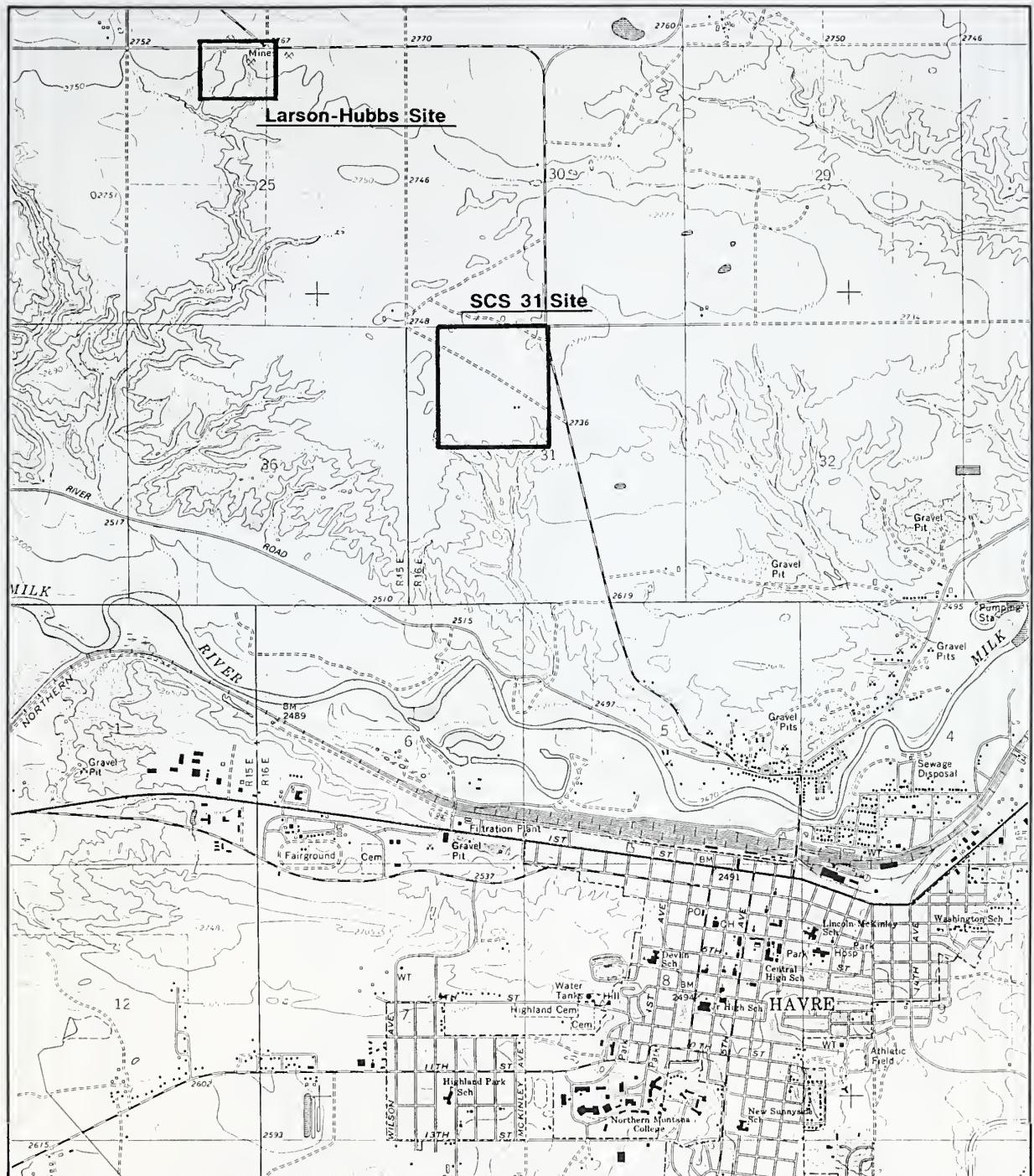
Michael Cormier
Project Coordinator

Enclosures: Three (3) report copies
Two (2) copies of photos/One copy of slides



ATTACHMENT A

**SITE LOCATION AND ACCESS MAPS
HAVRE COAL MAINTENANCE PROJECT**



From USGS 7.5 Quad
Hill County, Montana

**SCS 31 Site and Larson-Hubbs Site
Havre Coal Maintenance Project
Havre, Montana**

Stock Pond
With Cotton-
wood Tree

60

61

62

56

57

55

54

41

42

43

59

102



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12 issues

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11

8-Vent Pipe
(14' Deep)

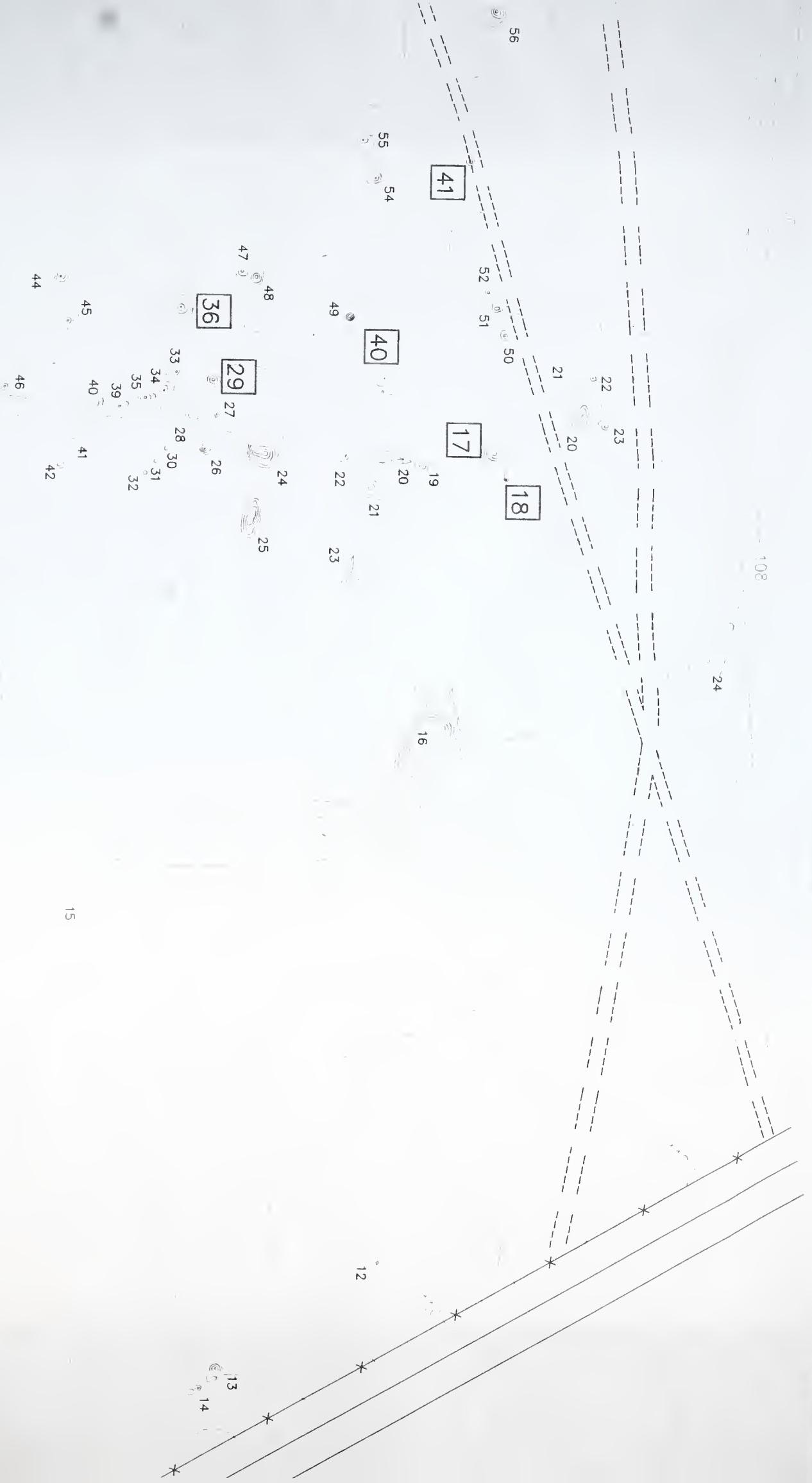
9

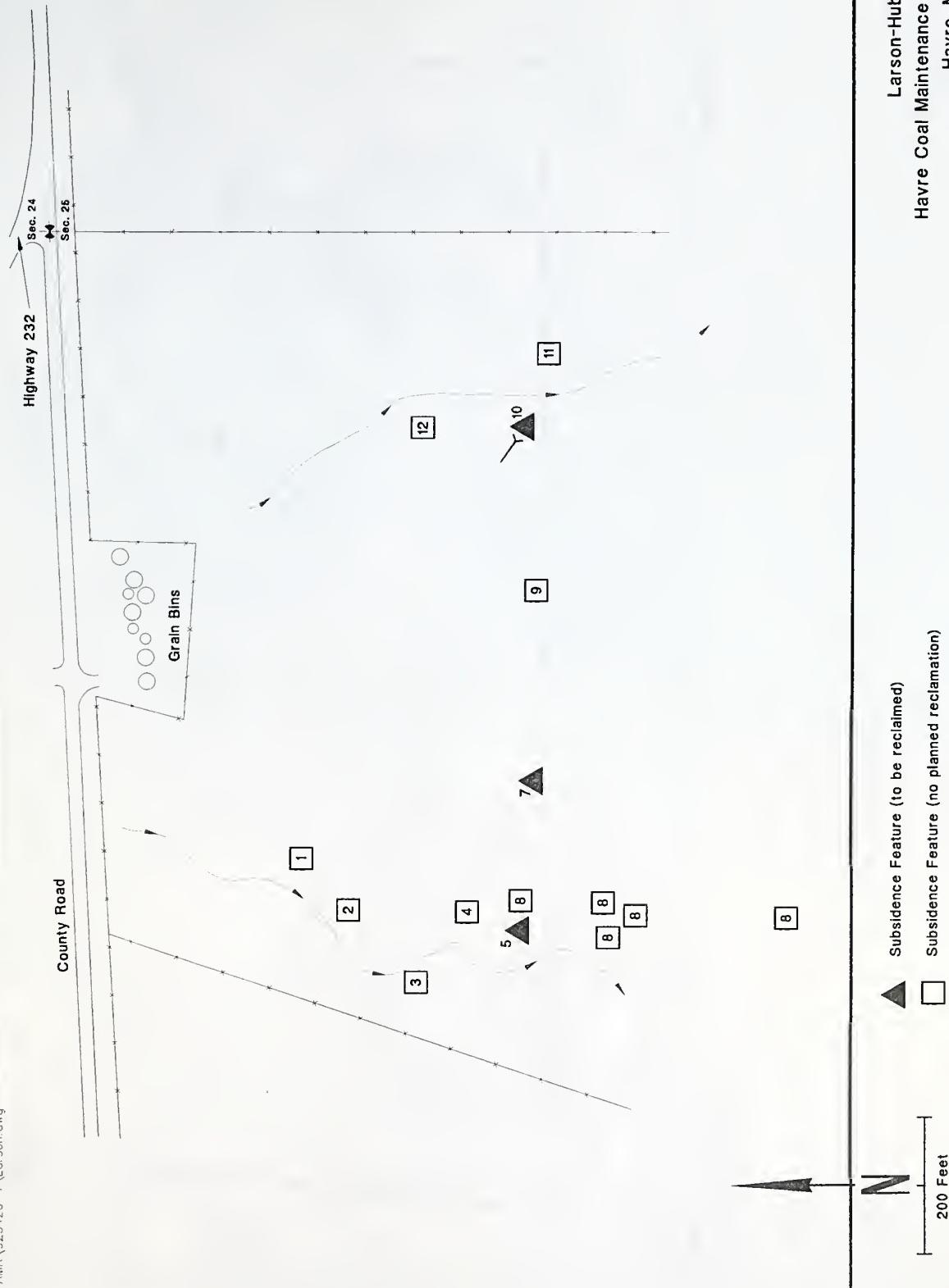
3

COUNTY ROAD

FENCE

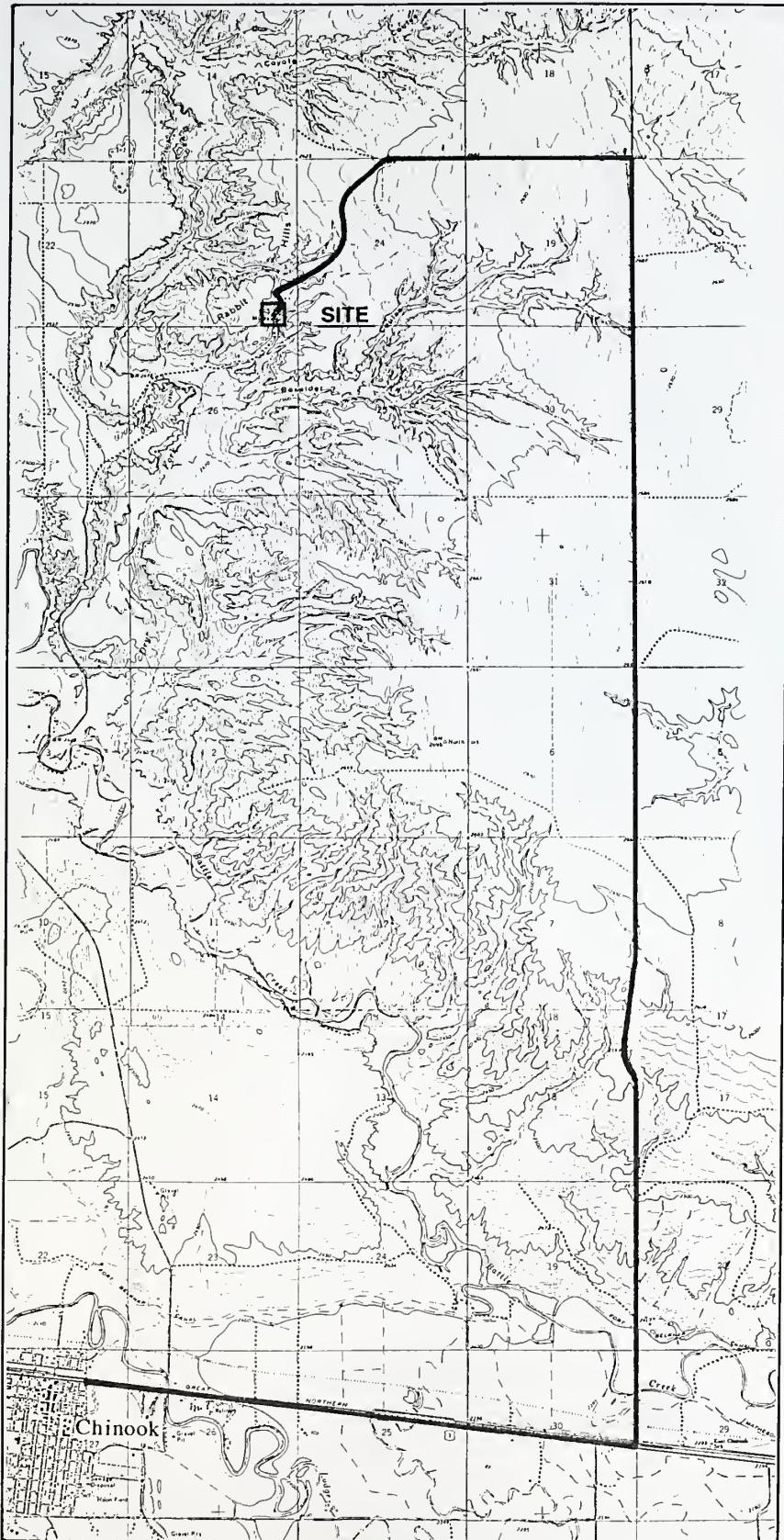
FENCE





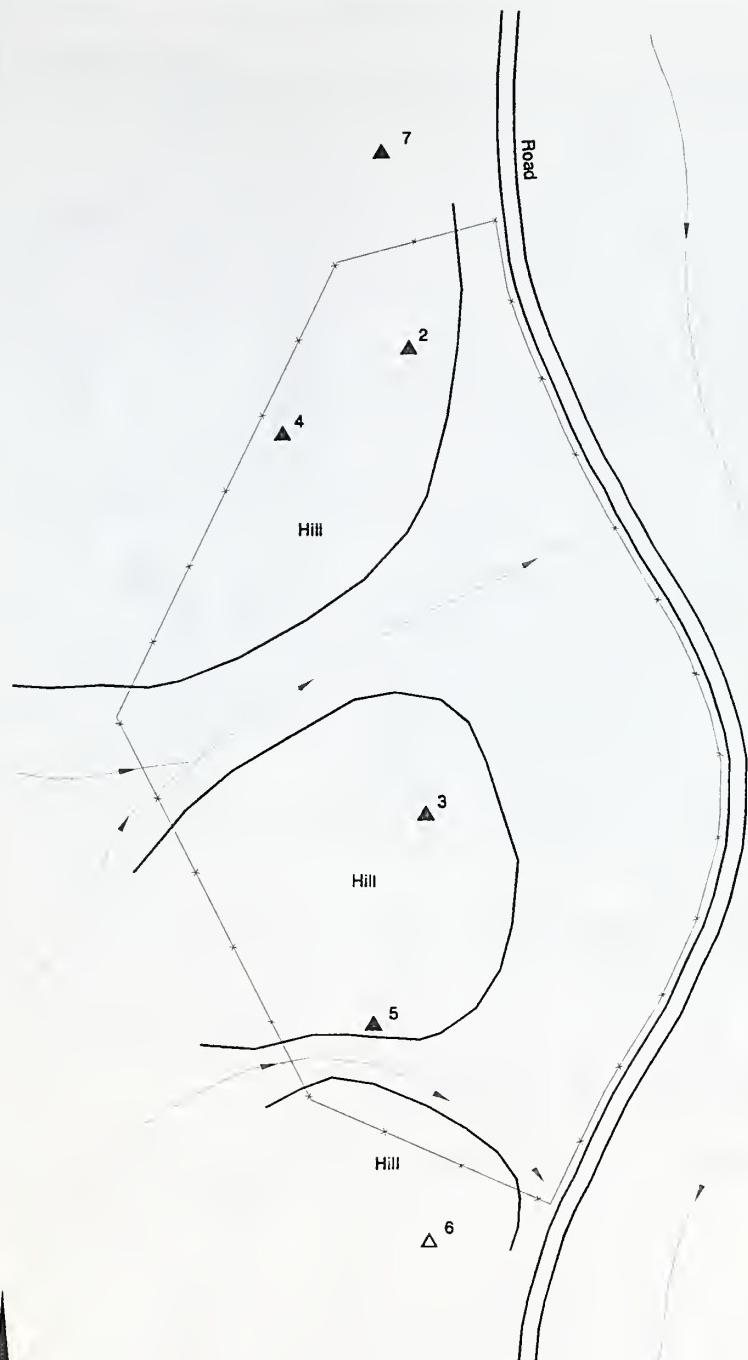
Larson-Hubbs Site
Havre Coal Maintenance Project
Havre, Montana
FIGURE 3

Vandeven Site
Havre Coal Maintenance Project
Chinook, Montana
FIGURE 4



From USGS 7.5 Rabbit Hills Quad (reduced)
Blaine County, Montana



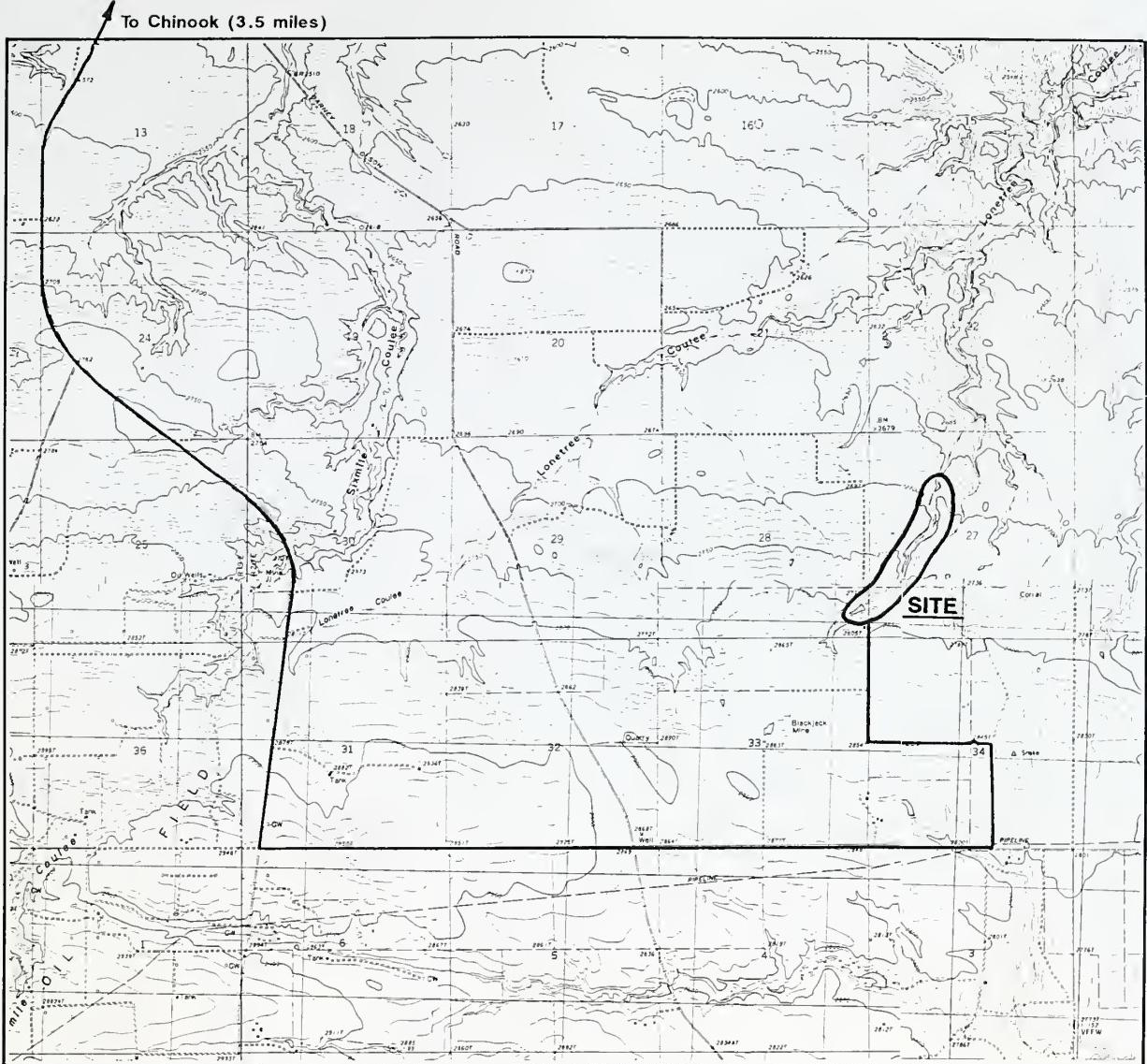


▲ Subsidence Feature (to be reclaimed)

△ Subsidence Feature (no planned reclamation)

Vandeven Site
Havre Coal Maintenance Project
Chinook, Montana

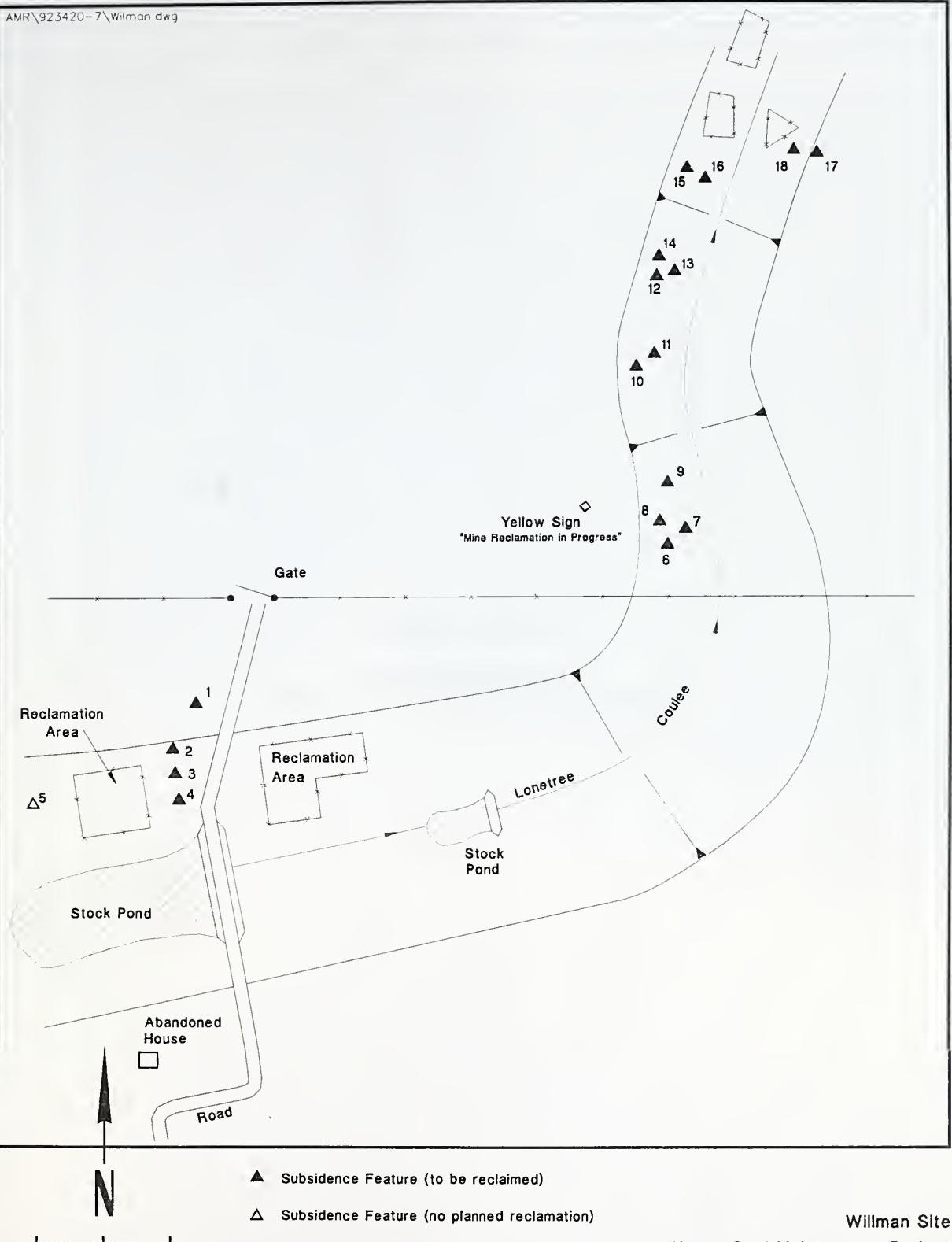
FIGURE 5



From USGS 7.5 Zurich Quad (reduced)

Blaine County, Montana

Willman Site
Havre Coal Maintenance Project
Chinook, Montana



▲ Subsidence Feature (to be reclaimed)

△ Subsidence Feature (no planned reclamation)

Willman Site

Havre Coal Maintenance Project
Chinook, Montana

FIGURE 7

ATTACHMENT B

BID TABULATIONS

HAVRE COAL MAINTENANCE PROJECT

HAVRE COAL MAINTENANCE PROJECT
HILL AND BLAINE COUNTIES, MONTANA

DSL/AMRB 93-005
August 6, 1993

BID TABULATIONS				ENGINEER'S ESTIMATE		TP CONSTRUCTION		SHUMAKER TRUCKING & EXCAVATING		PINE STREET INC.	
Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price						
1.	1	LS	Mobilization, Bonding and Insurance	2500.00	2,500.00	1370.00	1,370.00	1900.00	1,900.00	2000.00	2,000.00
2.	780	CY	Subsidence Grading/Backfill Closure	10.02	7,815.60	8.45	6,591.00	10.00	7,800.00	14.00	10,920.00
3.	780	CY	Provide Backfill Material	7.24	5,647.20	7.50	5,850.00	10.00	7,800.00	10.50	8,190.00
4.	.75	CY.	Provide Soil Cover	20.00	1,500.00	23.00	1,725.00	10.00	750.00	25.00	1,875.00
5.	1	LS	Fertilize, Seed and Mulch	631.20	631.20	460.00	460.00	1900.00	1,900.00	2000.00	2,000.00
					18,094.00		15,996.00		19,750.00		24,985.00

HAVRE COAL MAINTENANCE PROJECT
HILL AND BLAINE COUNTIES, MONTANA

DSL/AMRB 93-005
August 6, 1993

BID TABULATIONS			ENGINEER'S ESTIMATE		MOXLEY JOINT VENTURE		PRAIRIE HYDROSEEDING		DE BUFF DRILLING CO.	
Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price					
1.	1	LS	Mobilization, Bonding and Insurance	2500.00	2,500.00	2404.00	2,404.00	3250.00	3,250.00	3300.00
2.	780	CY	Subsidence Grading/Backfill Closure	10.02	7,815.60	12.90	10,062.00	11.50	8,970.00	10.00
3.	780	CY	Provide Backfill Material	7.24	5,647.20	10.23	\$,979.00	20.00	15,600.00	25.00
4.	75	CY.	Provide Soil Cover	20.00	1,500.00	19.59	1,469.25	20.00	1,725.00	25.00
5.	1	LS	Fertilize, Seed and Mulch.		631.20	4540.00	4,540.00	3000.00	3,000.00	2,000.00
					18,694.00	26,454.65		32,545.00		34,475.00

HAVRE COAL MAINTENANCE PROJECT
HILL AND BLAINE COUNTIES, MONTANA

BID TABULATIONS				ENGINEER'S ESTIMATE			HALLETT RECLAMATION CO.	
Item Number	Estimated Quantity	Unit	Description	Unit Price	Total Price			
1.	1	LS	Mobilization, Bonding and Insurance	2500.00	2,500.00	3600.00	3,600.00	
2.	780	CY	Subsidence Grading/Backfill Closure	10.02	7,815.60	21.35	16,653.00	
3.	780	CY	Provide Backfill Material	7.24	5,647.20	16.95	13,221.00	
4.	75	CY.	Provide Soil Cover	20.00	1,500.00	32.40	2,430.00	
5.	1	LS	Fertilize, Seed and Mulch	631.20	1400.00	1,400.00	1,400.00	
					18,094.00		37,304.00	

ATTACHMENT C

**APPROVED CHANGE ORDERS, PAYMENT REQUESTS,
CERTIFICATES OF COMPLETION AND ACCEPTANCE,
AND AFFIDAVIT ON BEHALF OF CONTRACTOR
HAVRE COAL MAINTENANCE PROJECT**

CHANGE ORDER

ORDER NO. 1

PROJECT TITLE: Havre Coal Maintenance Project

MONT A/E or DSL-AMRB: 93-005

CONTRACT DATE: August 13, 1993

OWNER: Montana Department of State Lands/Abandoned Mine Reclamation Bureau

CONTRACTOR: TP Construction, Inc. P.O. Box 591, Havre, MT 59501-0591

Change Orders must be accompanied by an itemized cost breakdown. You are hereby requested to comply with the following changes from the Contract Documents. (Show separate costs for materials, labor, equipment, and miscellaneous. Show percent where applicable.)

ITEM NO.	DESCRIPTION OF CHANGES - ESTIMATED QUANTITIES & UNITS	COST OF CHANGES					TOTAL COST
		MAT'L'S.	LABOR	EQUIP.	MISC.	TOTAL UNIT COST	
	Reconciliation of Plan Quantities		-				
	Subsidence Grading/Backfill Closure						
1.	Actual Contract Qty. <u>867 c.y.</u> Original Contract Qty. <u>970 c.y.</u> Add <u>87 c.y.</u>					8.45	\$735.15
	Provide Backfill Material						
2.	Actual Contract Qty. <u>867 c.y.</u> Original Contract Qty. <u>780 c.y.</u> Add <u>87 c.y.</u>					7.50	652.50
	Provide Cover Soil						
3.	Actual Contract Qty. <u>78 c.y.</u> Original Contract Qty. <u>75 c.y.</u> Add <u>3 c.y.</u>					23.00	69.00
TOTAL COST - MATERIALS, LABOR, EQUIPMENT & MISC.							<u>1,465.65</u>
OVERHEAD & PROFIT @ _____ %							<u>Included</u>
GRAND TOTAL - THIS CHANGE ORDER							<u>1,465.65</u>

Original Contract Price	<u>15,996.00</u>
Current Contract Price Adjusted by Previous Change Order	<u>15,996.00</u>
Cost this Change Order (+ or -)	<u>1,465.65</u>
New Contract Price including this Change Order	<u>17,452.65</u>

The completion date as set forth in the Contract Documents shall be (unchanged) by _____ calendar days.

The date for completion of all work will be October 27, 1993.

Description and Justification for Change:

1. Original contract amount exceeded by 87 c.y. due to actual site conditions
2. Original contract amount exceeded by 87 c.y. due to actual site conditions.
3. Original contract amount exceeded by 3 c.y. due to actual site conditions.

SURETY CONSENT

The Surety hereby consents to the aforementioned Contract Change Order and agrees that its bond or bonds shall apply and extend to the Contract as thereby modified or amended per this Change Order. The Principal and the Surety further agree that on or after execution of this consent, the penalty of the applicable Performance Bonds or Bonds is hereby increased by \$ 1,465.65 (100% of the Change Order amount) and the penalty of the applicable Labor and Material Bond or Bonds is hereby increased by \$ 1,465.65 (100% of the Change Order amount).

COUNTERSIGNED BY MONTANA
RESIDENT AGENT

SURETY

By: _____

Seal

Recommended by: _____
Engineer _____ Date _____

Accepted by: _____
Contractor _____ Date _____

Approved by: _____
Owner _____ Date _____



PAYMENT REQUEST NO. 1

FROM 9-27-93 TO 10-4-93

PROJECT TITLE: Havre Coal Maintenance Project

LOCATION: Hill & Blaine Co., MT **MONT A/E or DSL-AMRB:** 93-005

NAME OF CONTRACTOR: TP Construction, Inc.

ADDRESS: P.O. Box 591, Havre, MT 59501

SUMMARY OF PROJECT STATUS

Amount of Original Contract	\$	15,996.00
Change Order No. 1	\$	1,456.65
Change Order No. _____	\$	_____
Change Order No. _____	\$	_____
Amount of Approved Change Order(s)	\$	1,456.65

TOTAL CONTRACT AMOUNT \$ 17,452.65

Pay Request No.	Amount of Request
1	17,278.12

Total Contract Amount Completed to Date	\$ 17,452.65
Less Retainage (____%)	\$ 0
TOTAL AMOUNT EARNED TO DATE	\$ 17,452.65
Less Previous Payments	\$ 0
AMOUNT DUE THIS PAYMENT	\$ 17,452.65
Less 1% Tax	\$ 174.53
TOTAL DUE CONTRACTOR	\$ 17,278.12

I certify that this claim is correct and just in all respects and
that payment or credit has not been received.

APPROVED BY

TP Construction, Inc. Contractor

Dept. of State Lands, Abandoned Mine Reclamation
Bureau

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DATA _____

- , _____

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Date _____

Item No.	Description	Contract Quantity	Contract Unit Price	Previous Quantity Requested	Current Quantity Completed	Total Quantity Completed To Date	Total Contract Amount Completed to Date	Amount Due this Payment
1.	Mobilization	1	1,370.00		1	1370.00	1370.00	
2.	Subsidence grading/backfill closure	780	8.45		867	867	7326.15	7326.15
3.	Provide backfill material	780	7.50		867	867	6502.50	6502.50
4.	Provide cover soil	75	23.00		78	78	1794.00	1794.00
5.	Fertilize, seed and mulch	1	460.00		1	1	460.00	460.00
Materials on Site (Attach Schedule)		--	--	\$	\$	----->	\$	\$
TOTAL							\$ 17,452.65	\$ 17,452.65

CERTIFICATE OF SUBSTANTIAL COMPLETION

TO: Dept. State Lands
PROJECT TITLE: Haure Coal Maintenance Project
MONT A/E or DSL-AMRB: 93-005
CONTRACT DATE: 8/13/93
LOCATION: Haure & Hill Counties, MT
PROJECT OR PART SHALL INCLUDE:
CONTRACTOR: IP Construction, Inc.
ADDRESS: Box 591 Haure, MT 59501
TELEPHONE NO: (406) 265-3351
SUBSTANTIAL COMPLETION DATE: 10/14/93
DSL INSPECTION DATE:
ENGINEER: Jess Whitford Huntington Chen
PERFORMANCE BOND NO: 158927
DATE OF BOND: 8-20-93
SURETY: National American Insur.
MONTANA AGENT: Erickson - Baldwin
Vic Velk
ADDRESS: Box 2500 Haure, Montana 59501
OWNER

The Work performed under this Contract has been inspected by authorized representatives of the Owner, Contractor, and Engineer, and the Project (or specified part of the Project, as indicated above) is hereby declared to be substantially completed on the above date.

DEFINITION OF SUBSTANTIAL COMPLETION

The date of substantial completion of a project or specified area of a project is the date when the construction is sufficiently completed, in accordance with the contract documents, as modified by any change orders agreed to by the parties, so the Owner can occupy or utilize the project or specified area of the project for the use for which it was intended.

A tentative list of items to be completed is appended hereto. This list may not be exhaustive, and the failure to include an item on it does not alter the responsibility of the Contractor to complete all the Work in accordance with the Contract Documents.

ENGINEER:

Chen-Northern, Inc.

By Terrell B. Bowser 11/3/93
Authorized Representative Date

The Contractor accepts the above Certificate of Substantial Completion and agrees to complete and correct the items on the tentative list within the time indicated.

CONTRACTOR:

IP Construction, Inc.

By Dennis D. Pitman 10/8/93
Authorized Representative Date

The Owner accepts the Project or specified area of the Project as substantially complete and will assume full possession of the project or specified area at _____ (time), on _____ (date). The responsibility for heat, utilities, security, and insurance under the Contract Documents shall be as set forth under "Remarks" below.

OWNER:

By Tom R. Anderson 11-5-93
Authorized Representative Date

Remarks: (Attach additional sheet, if necessary)

CONTRACTOR'S CERTIFICATE OF COMPLETION

TO (Owner): Dept. of State
Lands, Abandoned Mine Rec. Bur. DATE: 10-8-93
1625 Eleventh Avenue PROJECT TITLE: Haure Coal
Helena, MT 59620 Maintenance Project
ATTN: Engineer MONT A/E or DSL-AMRB: 93-005
FROM: TP Construction, Inc. CONTRACT DATE: 8-13-93
(Firm or Corporation)

This is to certify that I, Thomas R. Patrick, am an authorized official of TP Construction, Inc., working in the capacity of President and have been properly authorized by said firm or corporation to sign the following statements pertaining to the subject contract:

I know of my own personal knowledge, and do hereby certify, that the work of the contract described above has been performed, and materials used and installed in every particular, in accordance with, and in conformity to, the Contract Plans and Specifications.

The contract work is now complete in all parts and requirements and ready for your substantial completion inspection.

I understand that neither the determination of the Engineer that the work is complete nor the acceptance thereof by the Owner shall operate as a bar to claim against the Contractor under the terms of the guarantee provisions of the Contract Documents.

CONTRACTOR: TP Construction, Inc.
By: Thomas R. Patrick
Title: President

Distribution: 1. Project Manager
 2. Field Office
 3. File

CERTIFICATE OF ACCEPTANCE

TO: Department of State Lands OWNER
PROJECT TITLE: Havre Coal Maintenance Project
MONT A/E or DSL-AMRB: 93-005 FINAL ACCEPTANCE DATE: _____
CONTRACT DATE: 8/13/93 DSL INSPECTION DATE: _____
LOCATION: Hill & Blaine Co., Montana ENGINEER: Chen-Northern, Inc.
PROJECT OR PART SHALL INCLUDE: _____
CONTRACTOR: TP Construction, Inc.
ADDRESS: Box 591, Havre, Montana 59501
TELEPHONE NO: (406) 265-3351 PERFORMANCE BOND NO: 158927
SURETY: National American Insur
MONTANA AGENT: Erickson - Baldwin
Vic Vell
ADDRESS: Box 2500, Havre, Montana 59501

The Work performed under this Contract has been inspected by authorized representatives of the Owner, Contractor, and Engineer, and the Project (or specified part of the Project, as indicated above) is hereby declared to be totally completed and accepted on the above date.

ENGINEER:

Chen-Northern, Inc.

By Jeremiah B. Brown 11/3/93
Authorized Representative Date

The Contractor accepts the above Certificate of Acceptance and agrees to abide by the conditions of the one-year warranty period which began on the substantial completion date.

CONTRACTOR:

TP Construction, Inc.

By Plummer R. D. (Signature) 10/8/93
Authorized Representative Date

The Owner accepts the Project as totally complete, and final payment is due to the Contractor as provided in the contract documents.

OWNER:

By Hill Anderson 11-5-93
Authorized Representative Date

AFFIDAVIT ON BEHALF OF CONTRACTOR

STATE OF Montana) : ss
COUNTY OF Hill
DATE: 10/8/93

MONT A/E or DSL-AMRB: 93-005

I certify to the best of my knowledge and belief that all work has been performed and materials supplied in strict conformance with the terms and conditions of the corresponding contract documents between Dept. of State Lands, the Owner, and TP Construction Inc., the Contractor, dated 8-13-93 for the Haure Coal Maintenance Project Project, Mont A/E or DSL-AMRB 93-005, and further declare that all bills for materials, supplies, utilities, and for all other things furnished or caused to be furnished by the above-named Contractor and used in the execution of the above Contract have been fully paid, and there are no unpaid claims or demands of State Agencies, subcontractors, materialmen, mechanics, laborers or any others resulting from or arising out of work done or ordered to be done by said Contractor under the above-identified Contract.

In consideration of the prior and final payments made and all payments made for authorized changes, the Contractor releases and forever discharges the Owner from any and all obligations and liabilities arising by virtue of said Contract and authorized changes between the parties hereto, either verbal or in writing, and any and all claims and demands of every kind and character whatsoever against the Owner, arising out of or in any way relating to said Contract, and authorized changes.

This statement is made for the purpose of inducing the Owner to make Final Payment under the terms of the Contract, relying on the truth and statements contained therein.

Dated this 8th day of October, 1993, at Haure, Montana.

CONTRACTOR:

TP Construction, Inc.

By Jimmy D. Davis
Title: President

Subscribed and sworn to before me this 8th day of October, 1993

Linda Patrick Keys
Notary Public for the State of Montana

Residing at Haure
My commission expires 5-10-95

(SEAL)

ATTACHMENT D

**PROJECT RECONCILIATION
HAVRE COAL MAINTENANCE PROJECT**

PROJECT RECONCILIATION
HAVRE COAL MAINTENANCE PROJECT

SITE NAME	HMO NO.	TASK PERFORMED	EST QUANT	ACTUAL QUANT	ESTIMATED COST	ACTUAL COST
Havre SCS -31	4	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	16 16 0.5	25 25 0	135.20 120.00 11.50	211.25 187.50 0.0
	7	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	21.3 21.3 2.6	15 15 2	179.98 159.75 59.80	126.75 112.50 46.00
	9	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	14.8 14.8 1.8	11 11 2	125.06 111.00 41.40	92.95 82.50 46.00
	17	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	51.7 51.7 4.2	50 50 1	436.86 387.75 96.60	422.50 375.00 23.00
	18	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	11.3 11.3 0.2	5 5 0	95.48 84.75 4.60	42.25 37.50 0.0
	29	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	43.3 43.3 3.3	31 31 2	365.88 324.75 75.90	261.95 232.50 46.00
	36	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	41.7 41.7 4.2	72 72 4	352.36 312.75 96.60	608.40 540.00 92.00
	10	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	14.8 14.8 0.8	32 32 5	121.68 108.00 9.20	270.40 240.00 115.00
	41	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	11.8 11.8 0.4	8 8 1.5	99.71 88.50 9.20	67.60 60.00 34.50
	18	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	11.2 11.2 0.3	8 8 1.5	94.64 84.00 6.90	67.60 60.00 34.50
Larson-Hubbs	10	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	14 14 0.7	7 7 2	118.30 105.00 16.10	59.15 52.50 46.00
	5	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	12 12 1.5	12 12 1	101.40 90.00 34.50	101.40 90.00 23.00
	7	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	12.7 12.7 0.3	5 5 0	107.32 95.25 6.90	42.25 37.50 23.00
Vandeven	10	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	13.8 13.8 1.4	56 56 6	116.61 103.50 32.20	473.20 420.00 138.00
	2	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	22 22 1.5	12 12 2	185.90 165.00 34.50	101.40 90.00 46.00

PROJECT RECONCILIATION
HAVRE COAL MAINTENANCE PROJECT

SITE NAME	HMO NO.	TASK PERFORMED	EST QUANT	ACTUAL QUANT	ESTIMATED COST	ACTUAL COST
Vandeven	8	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	16 16 0.3	5 5 1	135.20 120.00 6.90	42.25 37.50 23.00
	8	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	27.3 27.3 2.8	20 20 3	230.68 204.75 64.40	169.00 150.00 69.00
	6	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	11 11 0.2	5 5 1	92.95 82.50 4.60	42.25 37.50 23.00
	7	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	23.8 23.8 0.5	10 10 1	201.11 178.50 11.50	84.50 75.00 23.00
Willman	1	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	17.1 17.1 0.8	14 14 2	144.50 128.25 18.40	118.30 105.00 46.00
	2	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	11.2 11.2 0.3	15 15 2	94.64 84.00 6.90	126.75 112.50 46.00
	8	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	11 11 0.2	15 15 2	92.95 82.50 4.60	126.75 112.50 46.00
	4	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	11.5 11.5 0.2	20 20 3	97.18 86.25 4.60	169.00 150.00 69.00
	6	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	13.3 13.3 2.2	12 12 4	112.38 99.75 50.60	101.40 90.00 92.00
	7	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	13.3 13.3 2.2	15 15 4	112.38 99.75 50.60	126.75 112.50 92.00
	8	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	8 8 1.3	4 4 3	67.60 60.00 29.90	33.80 30.00 69.00
	8	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	35.6 35.6 6	57 57 0	300.82 267.00 138.00	481.65 427.50 0.0
	10	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	41.7 41.7 4.2	57 57 0	352.36 312.75 96.60	422.50 375.00 23.00
	10	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	71 71 8.9	86 86 6	599.95 532.50 75.20	726.70 645.00 138.00
	12	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	17.8 17.8 2.2	20 20 1	150.41 133.50 50.60	169.00 150.00 23.00
	13	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	1.8 1.8 0.3	5 5 1	15.21 13.50 6.90	42.25 37.50 23.00

PROJECT RECONCILIATION
HAVRE COAL MAINTENANCE PROJECT

SITE NAME	HMO NO.	TASK PERFORMED	EST QUANT	ACTUAL QUANT	ESTIMATED COST	ACTUAL COST
Willman	14	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	33.3 33.3 3.3	40 40 1	281.38 249.75 75.90	338.00 300.00 23.00
	15	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	24.8 24.8 1.6	25 25 1	209.56 186.00 36.80	211.25 187.50 23.00
	15	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	16.7 16.7 2.8	22 22 2	141.12 125.25 64.40	185.90 165.00 46.00
	17	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	11 11 1.6	15 15 1	92.95 82.50 36.80	126.75 112.50 23.00
	18	Subsidence Grading/Backfill Closure Provide Backfill Material Provide Cover Soil	59.3 59.3 7.4	63 63 6	501.08 444.75 170.20	532.35 472.50 138.00

ATTACHMENT E

PHOTOGRAPHIC RECORD

HAVRE COAL MAINTENANCE PROJECT

PHOTOGRAPHIC RECORD
HAVRE COAL MAINTENANCE PROJECT

SITE NAME	PA NUMBER	SLIDE/PHOTO NO.	MINE OPENING NO.	SEQUENCE AND VANTAGE POINT
Havre SCS - 31	C-2108	1	4	Before; 10' E
		2	4	During; 10' E
		3	4	After; 10' E
		4	7	Before; 10' E
		5	7	During; 10' E
		6	7	After, 10' E
		4	4	Before; 15' E
		5	4	During; 10' E
		5	9	After, 15' E
		12	18	Before; 15' E
		11	42	During; 15' S
		12	17	After, 15' S
		13	18	Before; 15' N
		14	18	After, 15' S
		15	29	Before; 15' E
		15	29	During; 10' E
		17	29	After; 15' E
		12	36	Before; 15' N
		15	36	After; 15' N
		20	42	Before; 15' N
		21	42	During; 15' S
		22	40	After, 15' E
		23	17	Before; 15' N
		20	18	After; 15' N
		25	42	Before; 15' E
		20	42	After; 15' E
		27	43	Before; 15' E
		28	40	During; 10' E
		29	43	After; 15' E
Larson - Hubbs	C-2101	30	5	Before; 10' W
		31	5	During; 10' W
		32	5	After; 10' W
		33	7	Before; 10' W

PHOTOGRAPHIC RECORD
HAVRE COAL MAINTENANCE PROJECT

SITE NAME	PA NUMBER	SLIDE/PHOTO NO.	MINE OPENING NO.	SEQUENCE AND VANTAGE POINT
Larson - Hubbs	C-2101	34	7	During; 10' W
		39	7	After; 10' W
		36	10	Before; 25' E
		47	10	During; 25' E
		39	10	After; 25' E
Vandeven	C-0303	39	2	Before; 10' S
		40	2	During; 15' S
		41	2	After; 15' S
		40	3	Before; 10' S
		48	3	During; 10' S
		47	3	After; 10' S
		45	4	Before; 15' W
		46	4	During; 15' W
		47	7	After; 15' W
		48	6	Before; 10' S
		45	6	During; 10' S
		59	6	After; 10' S
		54	7	Before; 10' E
		52	7	During; 15' E
		59	4	After; 15' E
Willman	C-0304	54	1	Before; 10' S
		59	1	During; 10' S
		56	1	After; 10' S
		61	2	Before; 10' S
		59	2	After; 10' N
		59	3	During; 10' S
		61	7	During; 10' S
		61	3/4	After; 10' S
		62	6	Before; 20' S
		59	6	During; 20' S
		64	6	After; 20' S
		65	7	Before; 10' S
		56	7	During; 10' S
		67	8	Before; 15' S

PHOTOGRAPHIC RECORD
HAVRE COAL MAINTENANCE PROJECT

SITE NAME	PA NUMBER	SLIDE/PHOTO NO.	MINE OPENING NO.	SEQUENCE AND VANTAGE POINT
Willman	C-0304	68	8	During; 15' S
		68	7/8	After; 15' W
		70	9	Before; 40' N
		71	9	During; 40' N
		72	9	After; 40' N
		83	10	Before; 10' E
		74	10	During; 10' E
		85	12	After; 10' E
		76	11	Before; 15' W
		87	18	During; 15' W
		82	18	After; 15' W
		85	12	Before; 10' S
		82	12	During; 25' N
		91	12	During; 10' S
		82	14	Before; 10' S
		83	18	During; 10' S
		87	12/14	During; 25' S
		85	12/14	After; 25' S
		85	14	Before; 10' S
		87	13	During; 10' S
		85	13	After; 10' S
		85	15/16	Before; 40' N
		85	15/16	During; 15' N
		91	15/16	After; 15' N
		92	14	Before; 15' W
		83	18	During; 15' W
		91	18	After; 30' W
		95	18	Before; 30' W
		85	18	During; 30' W
		97	17/18	After; 15' W



4 Havre SCS-31
Before: 10° East
Havre Coal Maintenance/Photo No. 7



7 Havre SCS-31
Before: 10° East
Havre Coal Maintenance/Photo No. 4



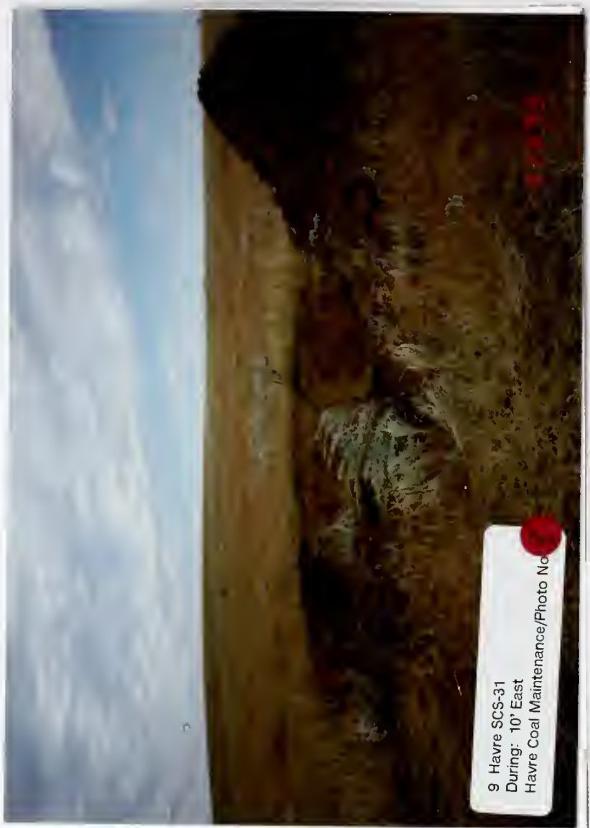
4 Havre SCS-31
During: 10° East
Havre Coal Maintenance/Photo No. 7



4 Havre SCS-31
After: 10° East
Havre Coal Maintenance/Photo No. 7



7 Havre SCS-31
During: 10' East
Havre Coal Maintenance/Photo No. 6



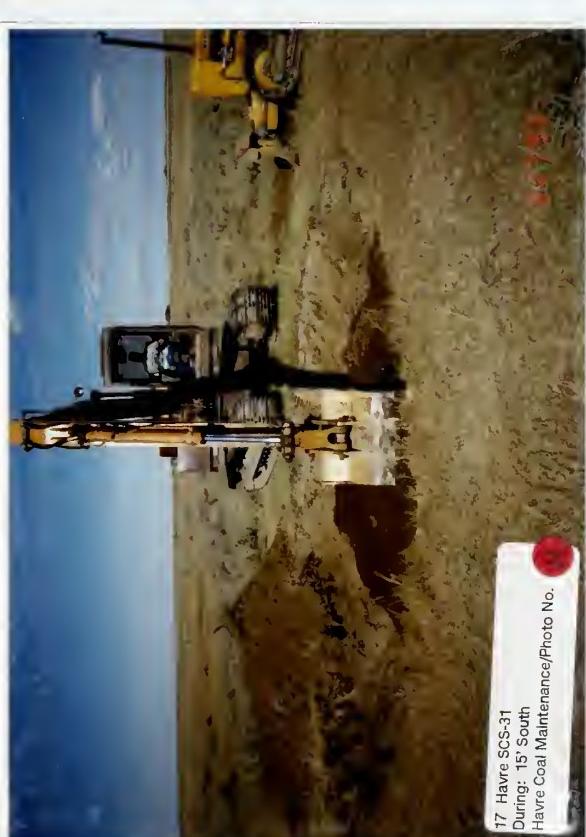
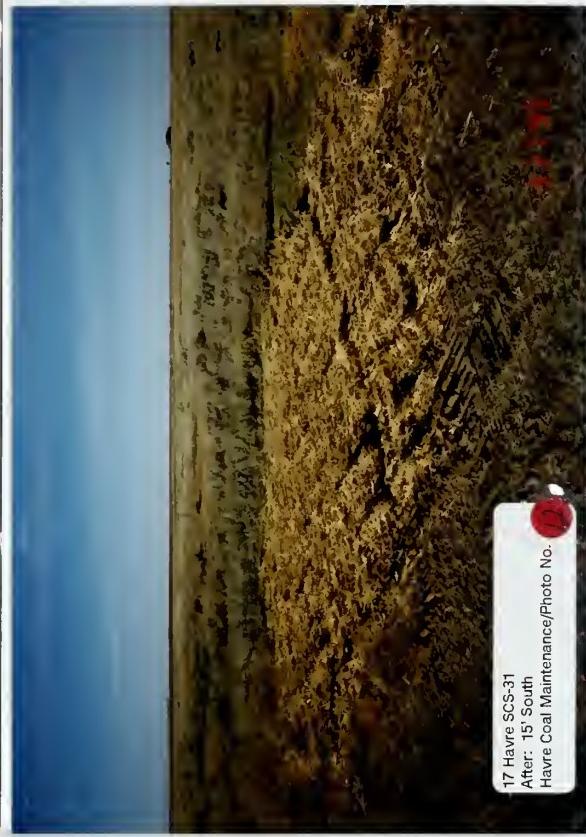
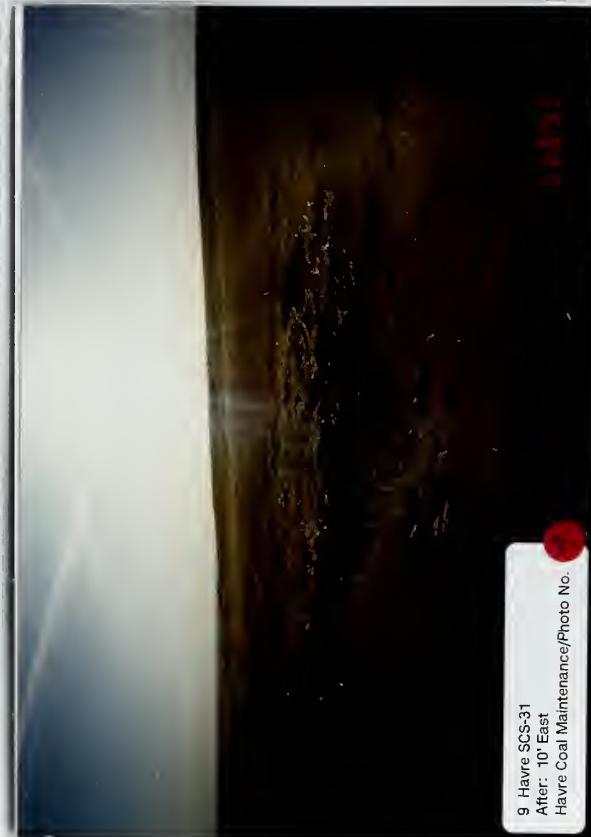
9 Havre SCS-31
During: 10' East
Havre Coal Maintenance/Photo No. 8



7 Havre SCS-31
After: 10' East
Havre Coal Maintenance/Photo No. 7

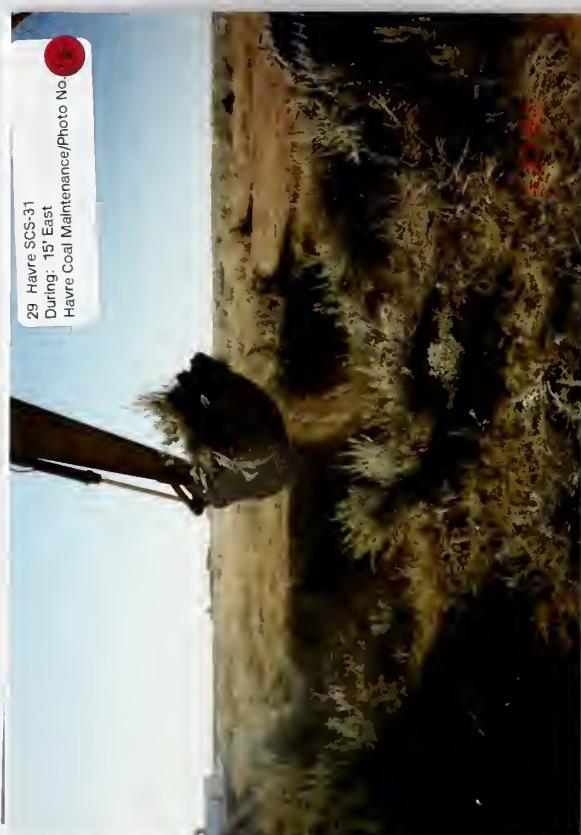


9 Havre SCS-31
Before: 10' East
Havre Coal Maintenance/Photo No. 9





18 Havre SCS-31
Before: 10° North
Havre Coal Maintenance/Photo No. 18



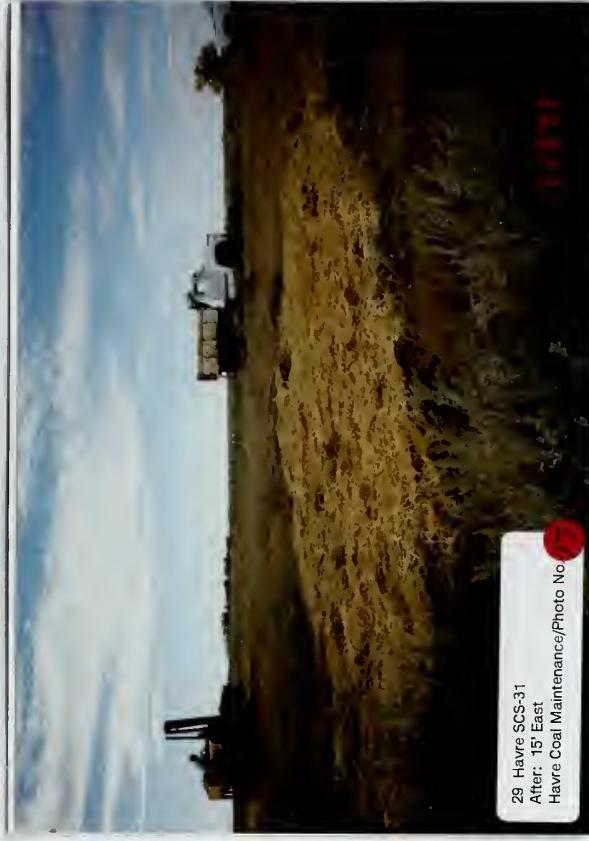
29 Havre SCS-31
During: 15° East
Havre Coal Maintenance/Photo No. 29



18 Havre SCS-31
After: 15° South
Havre Coal Maintenance/Photo No. 18



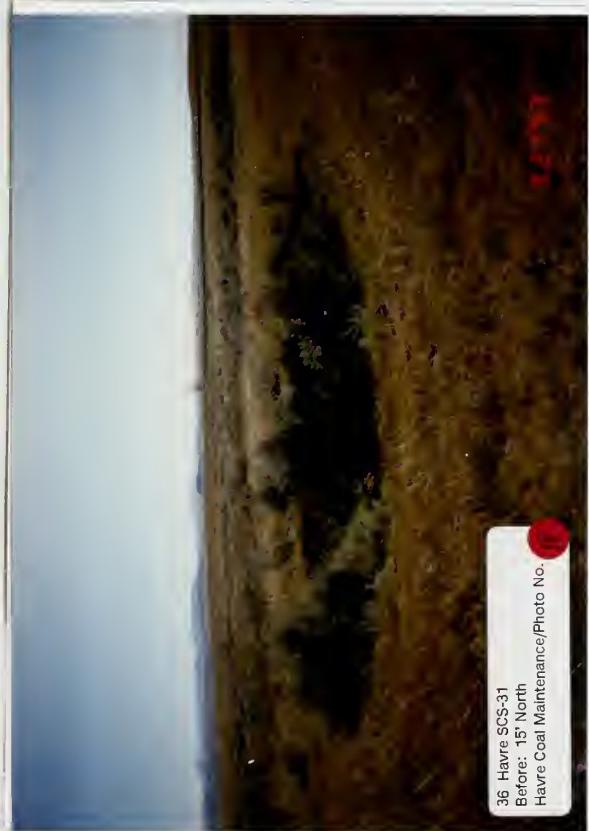
29 Havre SCS-31
Before: 15° East
Havre Coal Maintenance/Photo No. 29



29 Havre SCS-31
After: 15° East
Havre Coal Maintenance/Photo No. 1



40 Havre SCS-31
Before: 10° East
Havre Coal Maintenance/Photo No. 1



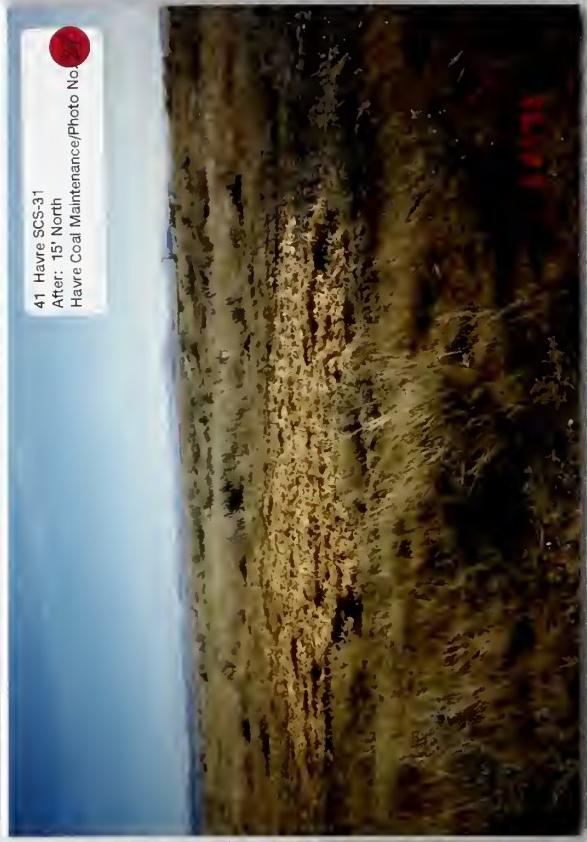
36 Havre SCS-31
Before: 15° North
Havre Coal Maintenance/Photo No. 1



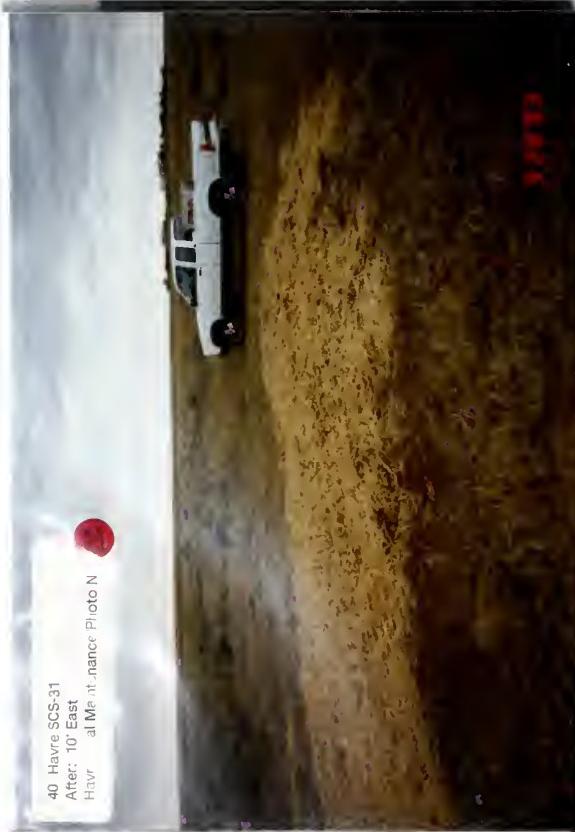
36 Havre SCS-31
After: 15° North
Havre Coal Maintenance/Photo No. 1



40 Havre SCS-31
During: 15° South
Havre Coal Maintenance/Photo No. 23



41 Havre SCS-31
After: 15° North
Havre Coal Maintenance/Photo No. 23



40 Havre SCS-31
After: 10° East
Havre Coal Maintenance/Photo No. 23



41 Havre SCS-31
Before: 15° North
Havre Coal Maintenance/Photo No. 23



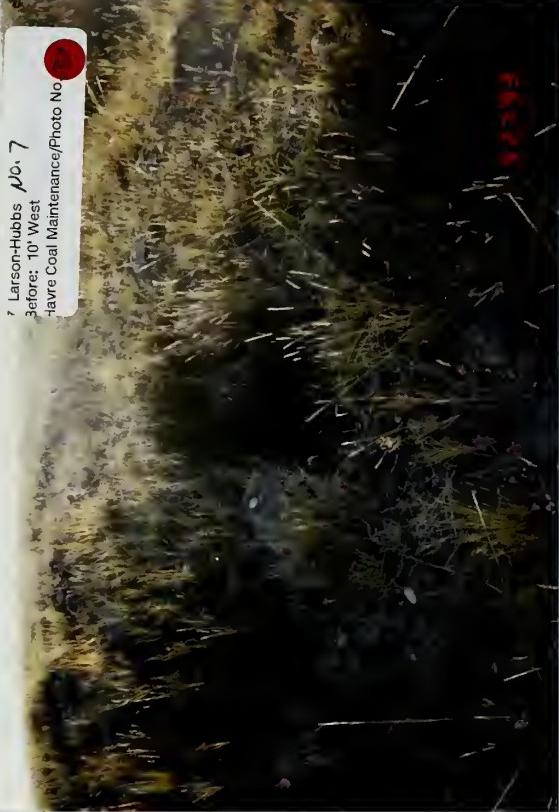
43 Hare SCS-31
After: 15' East
Hare Coal Maintenance/Photo No. 5



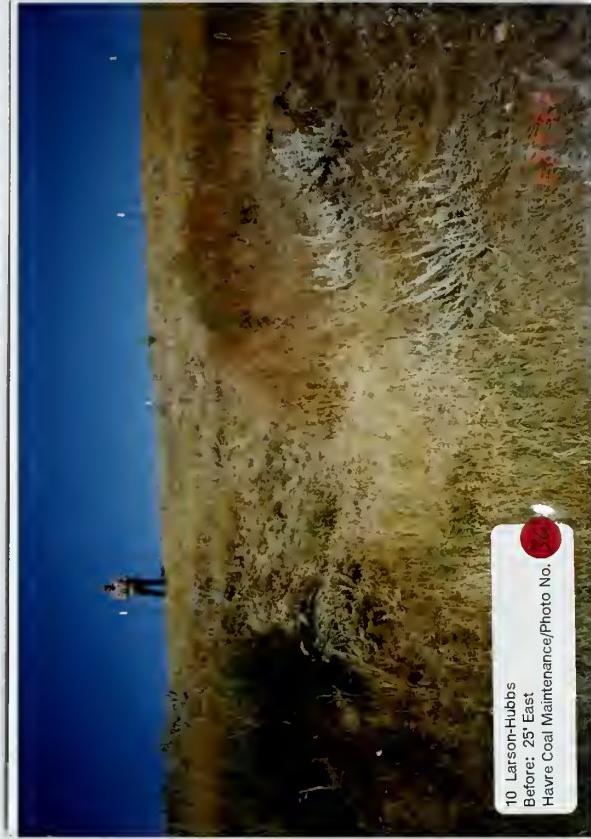
5 Larson-Hubbs
After: 10' West
Hare Coal Maintenance/Photo No. 5



5 Larson-Hubbs
During: 10' West
Hare Coal Maintenance/Photo No. 5



7 Larson-Hubbs
Before: 10' West
Havre Coal Maintenance/Photo No. 32293



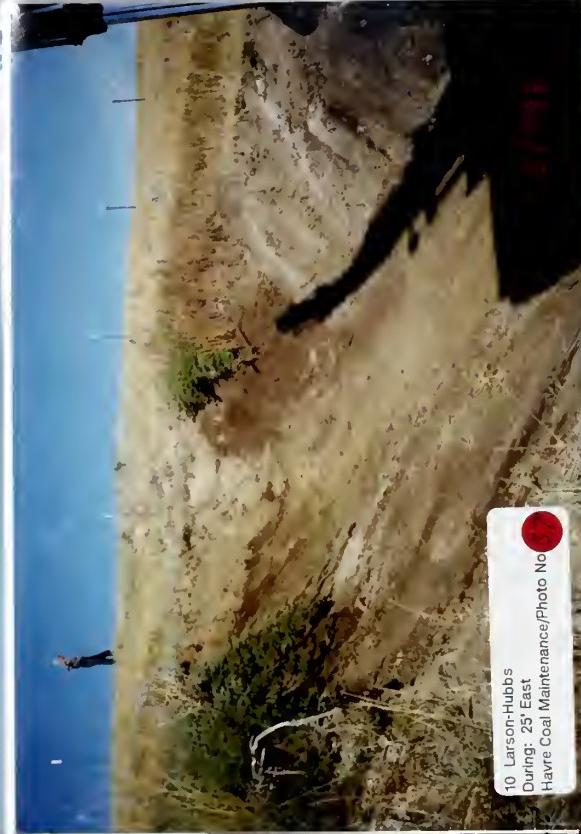
10 Larson-Hubbs
Before: 25' East
Havre Coal Maintenance/Photo No. 32294



10/6/07
Larson-Hubbs
During: 10' West
Havre Coal Maintenance/Photo No. 32295



7 Larson-Hubbs
After: 10' West
Havre Coal Maintenance/Photo No. 32296



10 Larson-Hubbs
During: 25° East
Havre Coal Maintenance/Photo No. 10



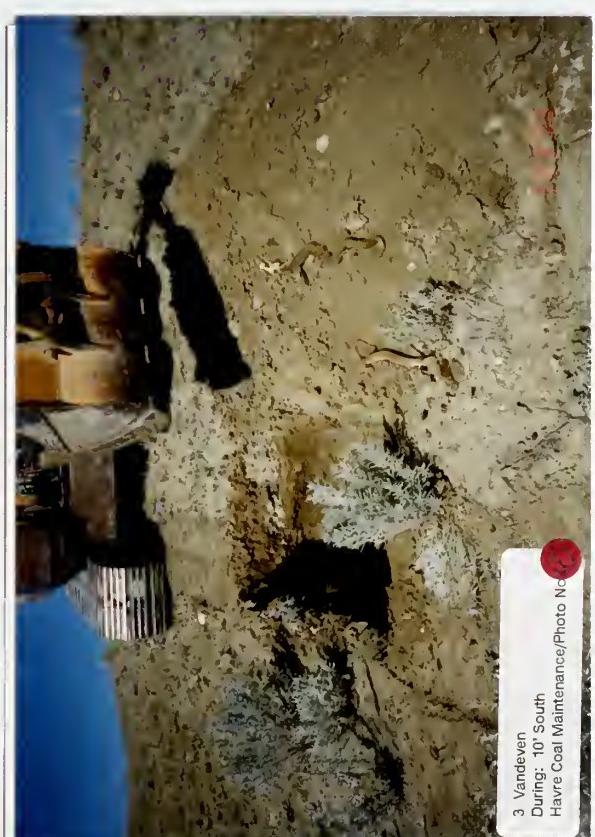
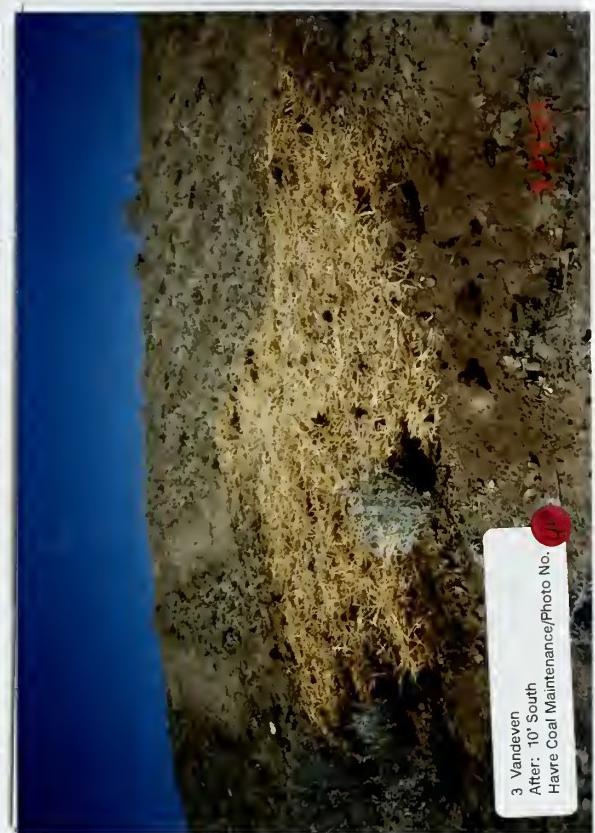
2 Vandeven
During: 15° South
Havre Coal Maintenance/Photo No. 2

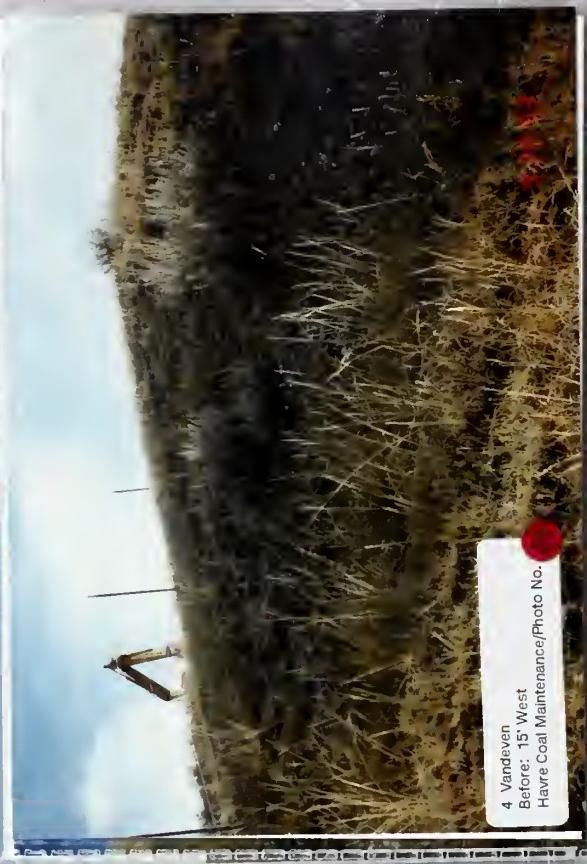


10 Larson-Hubbs
After: 25° East
Havre Coal Maintenance/Photo No. 10

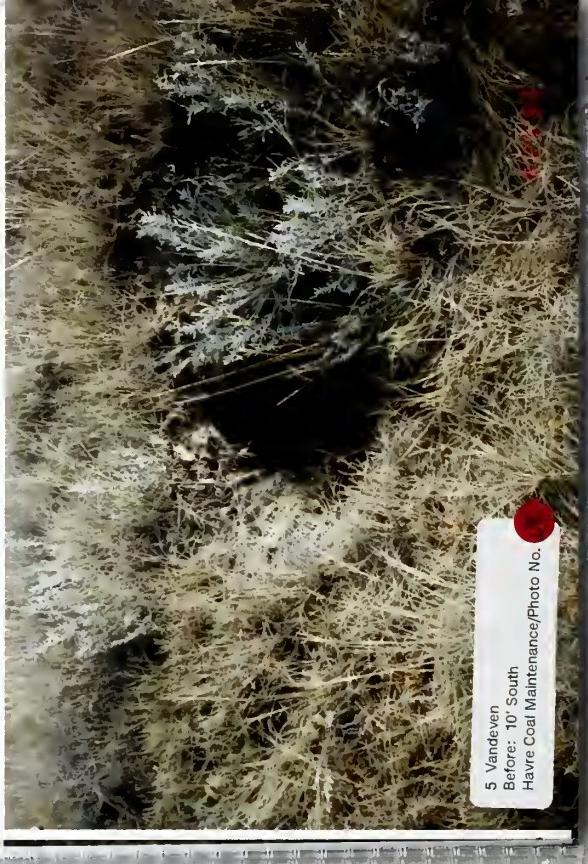


2 Vandeven
Before: 15° South
Havre Coal Maintenance/Photo No. 2





4 Vandeven
Before: 15' West
Havre Coal Maintenance/Photo No. 11



5 Vandeven
Before: 10' South
Havre Coal Maintenance/Photo No. 11



4 Vandeven
During: 15' West
Havre Coal Maintenance/Photo No. 11



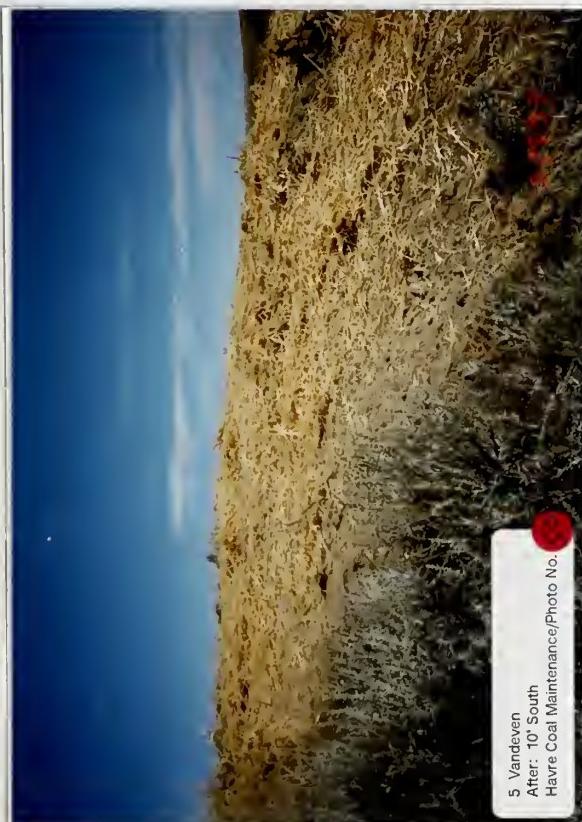
4 Vandeven
After: 15' West
Havre Coal Maintenance/Photo No. 11



5 Vandeven
During: 10' South
Havre Coal Maintenance/Photo No. 6



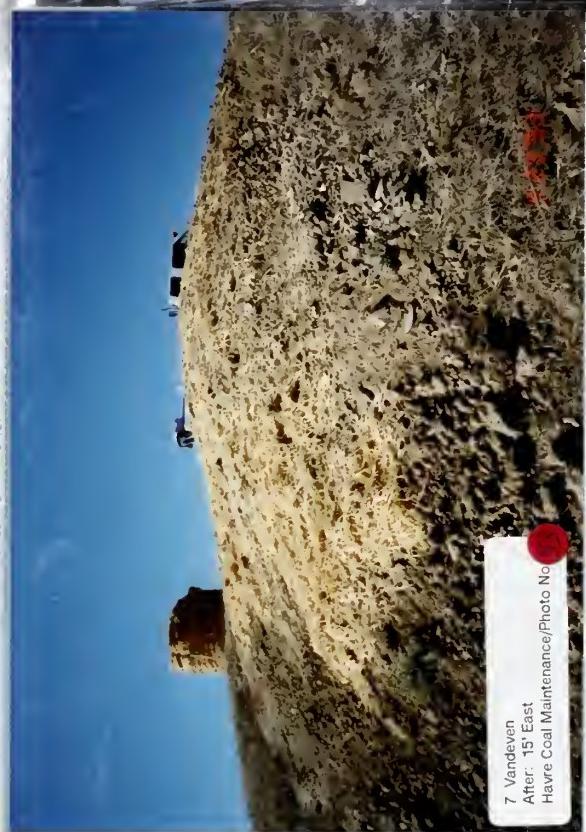
7 Vandeven
During: 15' East
Havre Coal Maintenance/Photo No. 5



5 Vandeven
After: 10' South
Havre Coal Maintenance/Photo No. 6

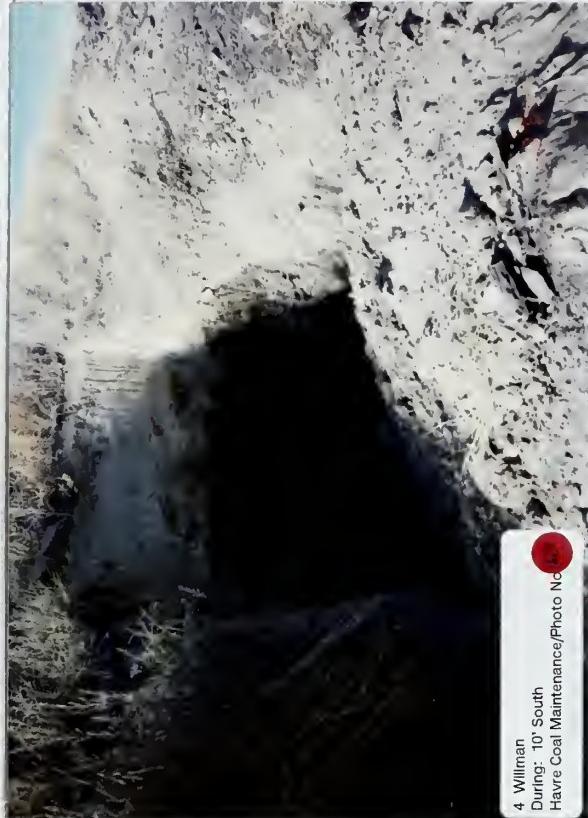


7 Vandeven
Before: 10' East
Havre Coal Maintenance/Photo No. 5

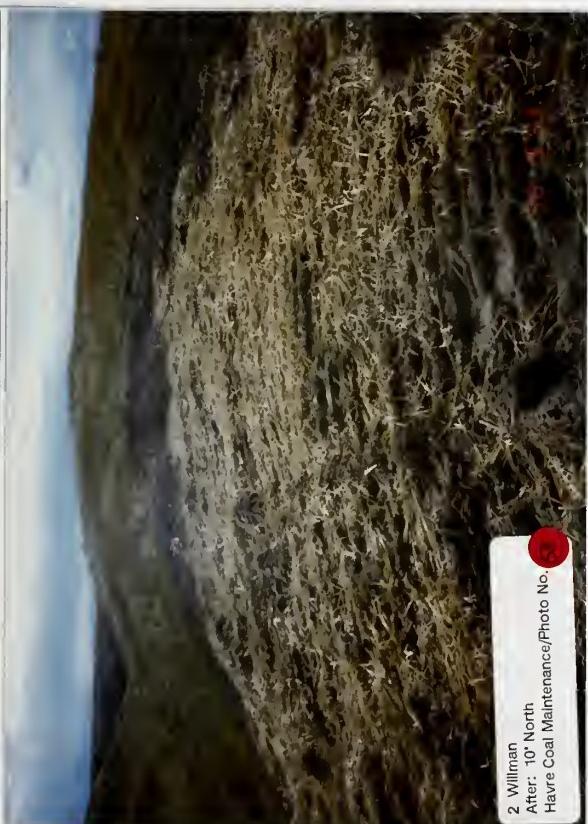




2 Willman
Before: 10' South
Havre Coal Maintenance/Photo No. 7



4 Willman
During: 10' South
Havre Coal Maintenance/Photo No. 4



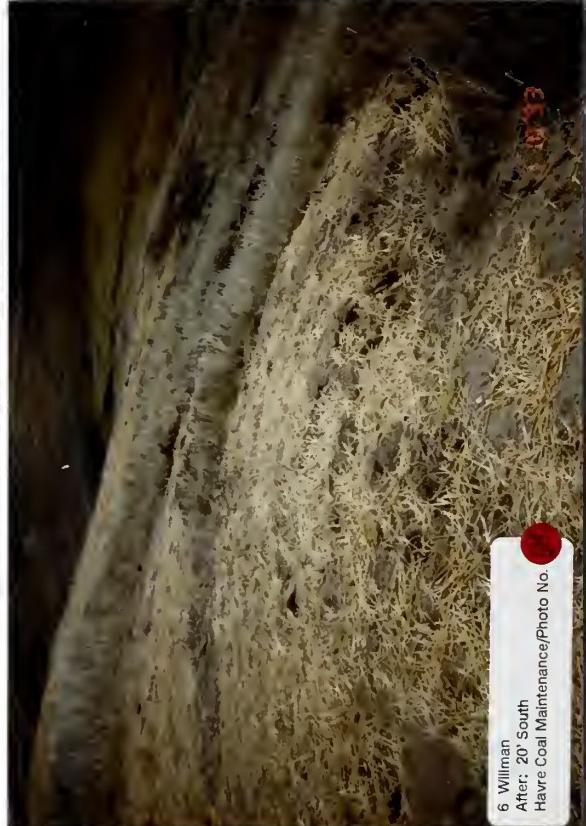
2 Willman
After: 10' North
Havre Coal Maintenance/Photo No. 6



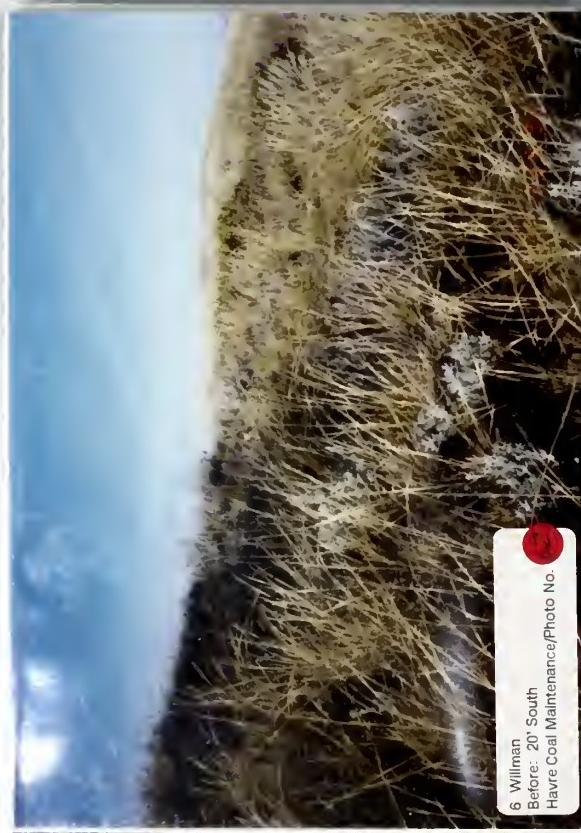
3 Willman
During: 10' South
Havre Coal Maintenance/Photo No. 5



3/4 Willman
After: 15' South
Havre Coal Maintenance/Photo No. 7



6 Willman
After: 20' South
Havre Coal Maintenance/Photo No. 8



6 Willman
Before: 20' South
Havre Coal Maintenance/Photo No. 9



6 Willman
During: 20' South
Havre Coal Maintenance/Photo No. 10



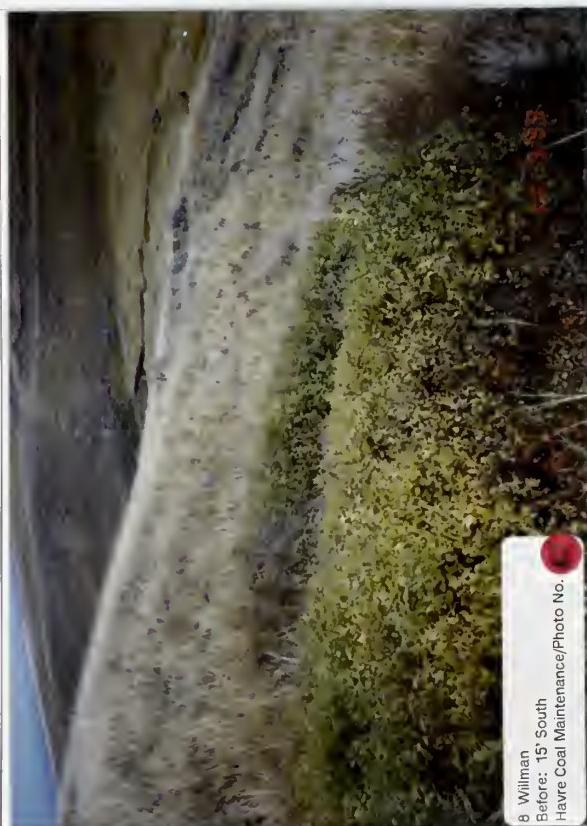
7 Willman
Before: 10' South
Havre Coal Maintenance/Photo No. 10



8 Willman
During: 15' South
Havre Coal Maintenance/Photo No.



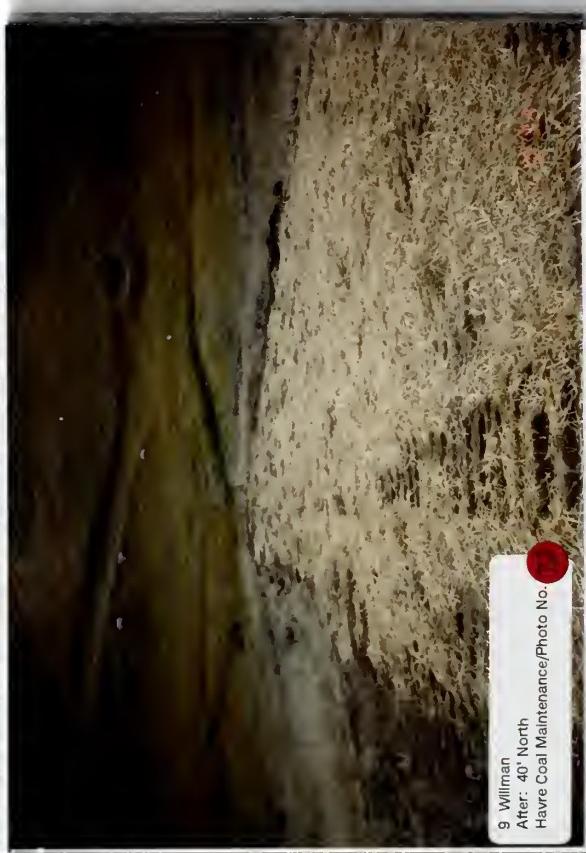
7 Willman
During: 10' South
Havre Coal Maintenance/Photo No.



8 Willman
Before: 15' South
Havre Coal Maintenance/Photo No.



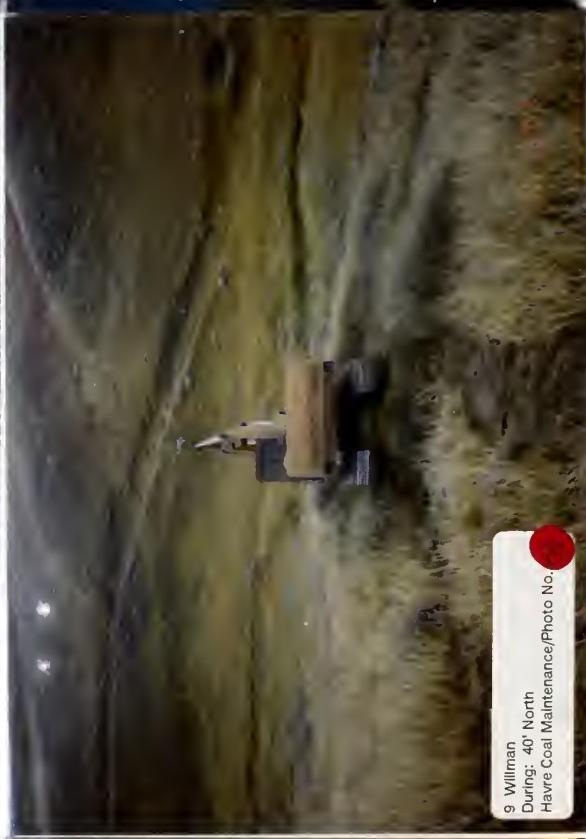
7/8 Willman
After: 15° West
Havre Coal Maintenance/Photo No. 2



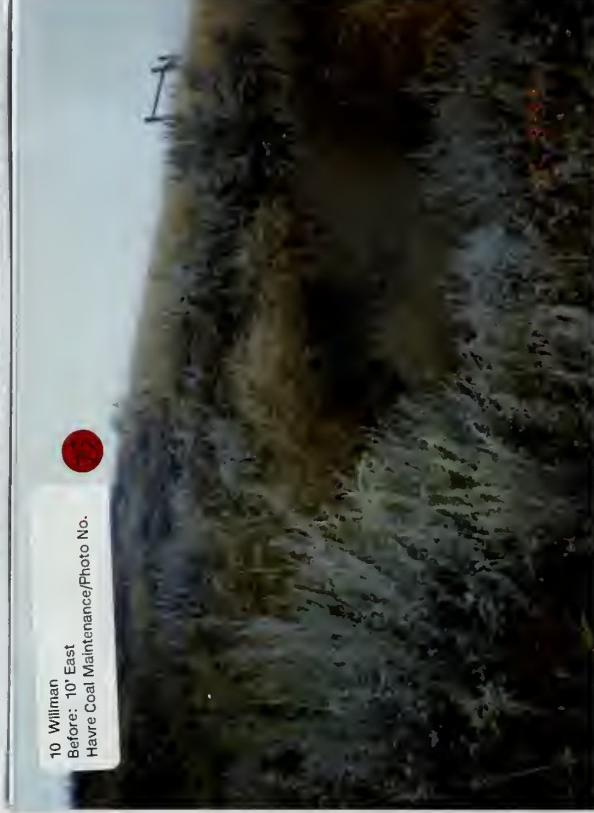
9 Willman
After: 40° North
Havre Coal Maintenance/Photo No. 2



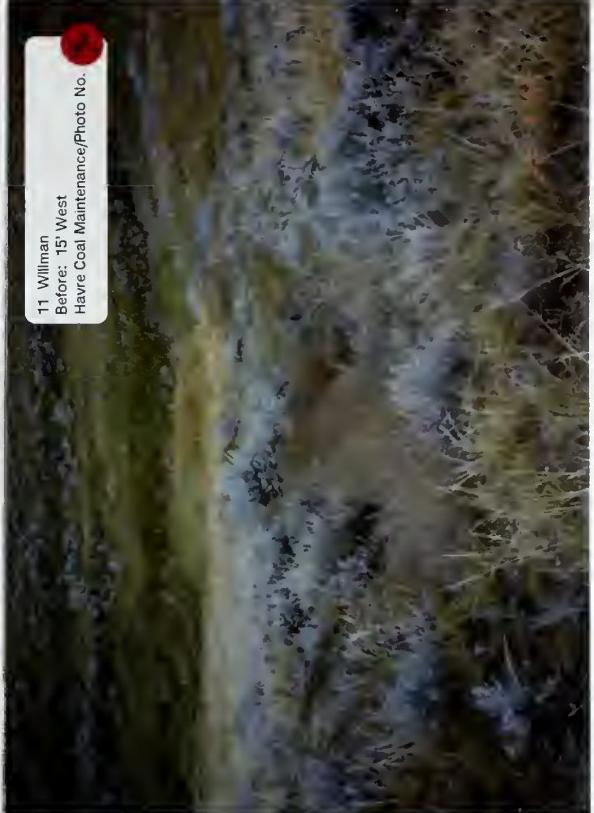
9 Willman
Before: 40° North
Havre Coal Maintenance/Photo No. 2



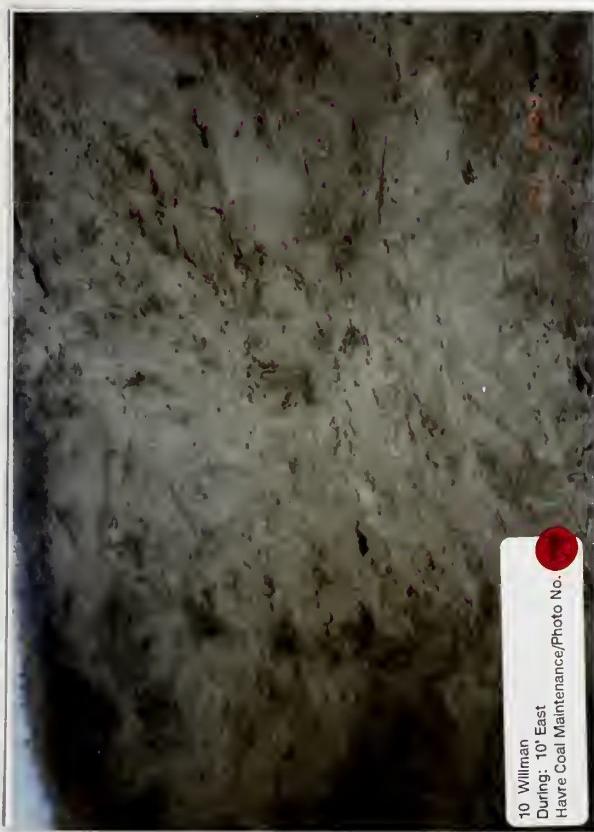
9 Willman
During: 40° North
Havre Coal Maintenance/Photo No. 2



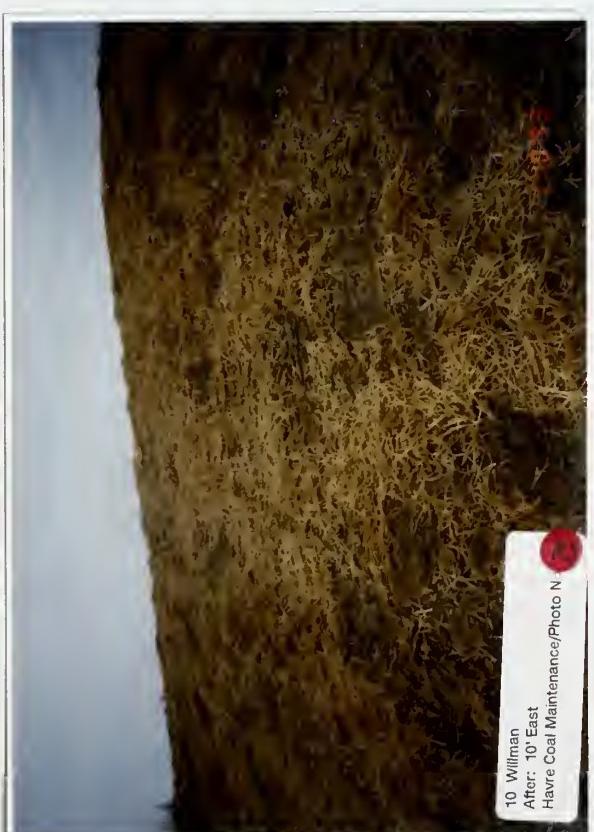
10 Willman
Before: 10' East
Havre Coal Maintenance/Photo No.



11 Willman
Before: 15' West
Havre Coal Maintenance/Photo No.



10 Willman
During: 10' East
Havre Coal Maintenance/Photo No.



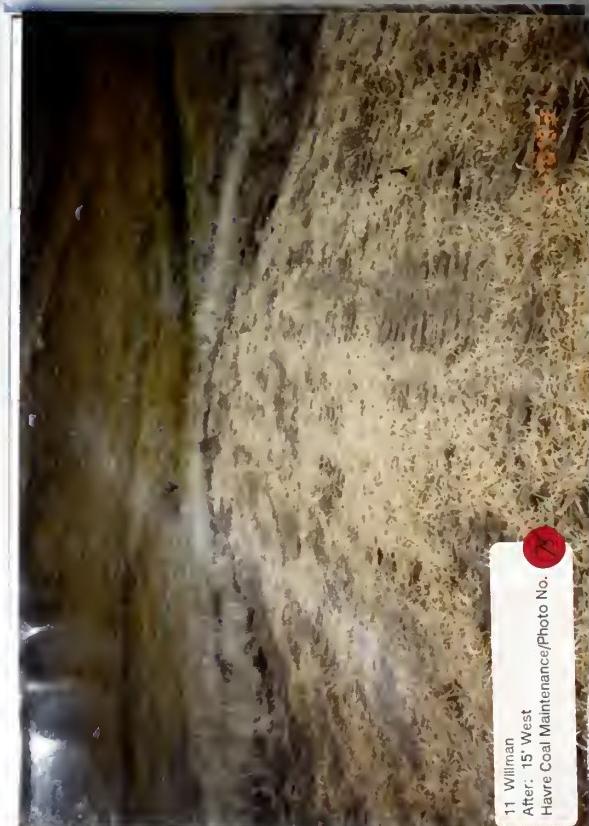
10 Willman
After: 10' East
Havre Coal Maintenance/Photo No.



11 Willman
During: '15 West
Havre Coal Maintenance/Photo No.



12 Willman
During: '10 South
Havre Coal Maintenance/Photo No.



11 Willman
After: '15 West
Havre Coal Maintenance/Photo No.



12 Willman
Before: '10 South
Havre Coal Maintenance/Photo No.





12/14 Willman
Before: 10° South
Havre Coal Maintenance/Photo No. 1093



13 Willman
After: 10° South
Havre Coal Maintenance/Photo No. 1097



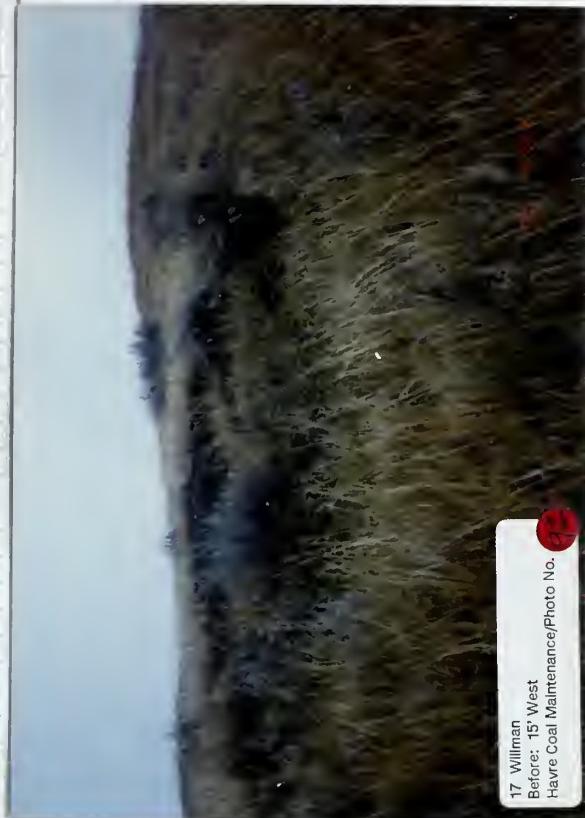
13 Willman
Before: 10° South
Havre Coal Maintenance/Photo No. 1098



13 Willman
During: 10° South
Havre Coal Maintenance/Photo No. 1099



15/16 Willman
Before: 15' North
Havre Coal Maintenance/Photo No. 1



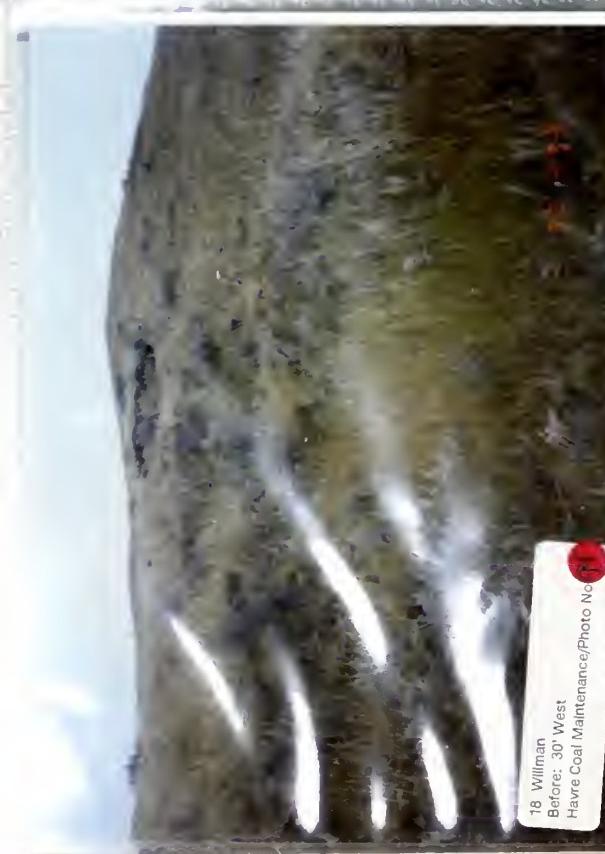
17 Willman
Before: 15' West
Havre Coal Maintenance/Photo No. 2



15/16 Willman
During: 15' North
Havre Coal Maintenance/Photo No. 3



15/16 Willman
After: 15' North
Havre Coal Maintenance/Photo No. 4





1778 Willman
After: 15 West
Havre Coal Maintenance/Photo No.
150 93



17 Willman
During: 15' West
Havre Coal Maintenance/Photo No. 18



18 Willman
Before: 30' West
Havre Coal Maintenance/Photo No. 18



18 Willman
During: 30' West
Havre Coal Maintenance/Photo No. 18

SHUTTER FLAMES

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